

## Rabbit EGFR Polyclonal Antibody | anti-EGFR antibody

EGFR Antibody (Y869)

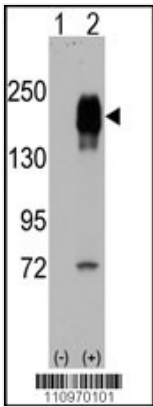
| CATALOG # | HOST   | REACTIVITY                         | APPLICATIONS        |
|-----------|--------|------------------------------------|---------------------|
| AAA290704 | Rabbit | Human; Predicted Reactivity: Mouse | ELISA, Western Blot |

### PRODUCT SYNONYMS

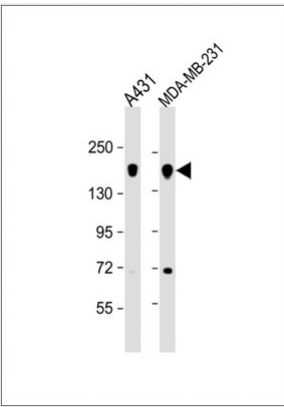
EGFR; Polyclonal Antibody; EGFR Antibody (Y869); Epidermal growth factor receptor; Proto-oncogene c-ErbB-1; Receptor tyrosine-protein kinase erbB-1; ERBB; ERBB1; HER1; anti-EGFR antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Reactivity                                     | Human; Predicted Reactivity: Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Isotype                                        | Ig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Specificity                                    | This EGFR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 847-876 amino acids from human EGFR.                                                                                                                                                                                                                                                                                                                                                                                      |
| Form/Format                                    | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.                                                                                                                                                                                                                                                                                                                                                     |
| Sequence Length                                | 1210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Applicable Applications for anti-EGFR antibody | ELISA, WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Function                                       | Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses                                                                                                                                                                                                                                                                                                                                                           |
| Cellular Location                              | Cell membrane; Single-pass type I membrane protein. Endoplasmic reticulum membrane; Single-pass type I membrane protein. Golgi apparatus membrane; Single-pass type I membrane protein. Nucleus membrane; Single-pass type I membrane protein. Endosome. Endosome membrane. Nucleus. Note=In response to EGF, translocated from the cell membrane to the nucleus via Golgi and ER. Endocytosed upon activation by ligand. Colocalized with GPER1 in the nucleus of estrogen agonist-induced cancer-associated fibroblasts (CAF). |
| Tissue Location                                | Ubiquitously expressed. Isoform 2 is also expressed in ovarian cancers.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Antigen Region                                 | 847-876 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Antigen Type                                   | Synthetic Peptide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Preparation and Storage                        | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                            |



**WB (Western Blot)**  
Western blot analysis of EGFR (arrow) using rabbit polyclonal EGFR Antibody.293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the EGFR gene (Lane 2) (Origene Technologies).



**WB (Western Blot)**  
All lanes : Anti-EGFR Antibody (Y869) at 1:1000 dilutionLane 1: A431 whole cell lysateLane 2: MDA-MB-231 whole cell lysateLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 134 kDaBlocking/Dilution buffer: 5% NFD/MTBST.

ADDITIONAL INFORMATION

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|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-EGFR antibody | <p>Description: EGFR is a transmembrane glycoprotein that is a member of a family of protein tyrosine kinases crucial in maintaining a normal balance in cell growth and development. A prototype member of the type 1 receptor tyrosine kinases, EGFR is encoded by the cellular oncogene cerbB1. EGFR has an extracellular ligand binding domain, a single transmembrane region, and cytoplasmic domain which is composed of a tyrosine kinase domain and a carboxy terminal domain. The carboxy terminal domain contains at least four tyrosine autophosphorylation sites. Increased production or activation of EGFR has been associated with poor prognosis in a variety of tumors. EGFR overexpression is observed in tumors of the head and neck, brain, bladder, stomach, breast, lung, endometrium, cervix, vulva, ovary, esophagus, stomach and in squamous cell carcinoma.</p> <p>Background: Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses. Known ligands include EGF, TGFA/TGF-alpha, amphiregulin, epigen/EPGN, BTC/betacellulin, epiregulin/EREG and HBEGF/heparin-binding EGF. Ligand binding triggers receptor homo- and/or heterodimerization and autophosphorylation on key cytoplasmic residues. The phosphorylated receptor recruits adapter proteins like GRB2 which in turn activates complex downstream signaling cascades. Activates at least 4 major downstream signaling cascades including the RAS- RAF-MEK-ERK, PI3 kinase-AKT, PLCgamma-PKC and STATs modules. May also activate the NF-kappa-B signaling cascade. Also directly phosphorylates other proteins like RGS16, activating its GTPase activity and probably coupling the EGF receptor signaling to the G protein-coupled receptor signaling. Also phosphorylates MUC1 and increases its interaction with SRC and CTNNB1/beta-catenin.</p> |
| Product Categories/Family for anti-EGFR antibody   | Primary Antibodies; Cancer; Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| References                                         | Aifa, S., et al., Exp. Cell Res. 302 (1):108-114 (2005). Adams, T.E., et al., Growth Factors 22 (2):89-95 (2004). Ichinose, J., et al., Biochem. Biophys. Res. Commun. 324 (3):1143-1149 (2004). Kuribayashi, A., et al., Endocrinology 145 (11):4976-4984 (2004). Kapoor, G.S., et al., Mol. Cell. Biol. 24 (2):823-836 (2004).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

NCBI AND UNIPROT INFORMATION

|                           |                                                                                                |
|---------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                 | 29725609                                                                                       |
| NCBI GeneID               | 1956                                                                                           |
| NCBI Accession #          | NP_005219.2                                                                                    |
| NCBI GenBank Nucleotide # | NM_005228.3                                                                                    |
| UniProt Accession #       | P00533; O00688; O00732; P06268; Q14225; Q68GS5; Q92795; Q9BZS2; Q9GZX1; Q9H2C9; Q9H3C9; Q9UMD7 |
| Molecular Weight          | 134277 Da                                                                                      |

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| NCBI Official Full Name          | epidermal growth factor receptor isoform a |
| NCBI Official Synonym Full Names | epidermal growth factor receptor           |
| NCBI Official Symbol             | EGFR                                       |
| NCBI Official Synonym Symbols    | ERBB; HER1; mENA; ERBB1; PIG61; NISBD2     |
| NCBI Protein Information         | epidermal growth factor receptor           |
| UniProt Protein Name             | Epidermal growth factor receptor           |
| UniProt Gene Name                | <b>EGFR</b>                                |
| UniProt Synonym Gene Names       | ERBB; ERBB1; HER1                          |
| UniProt Entry Name               | EGFR_HUMAN                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/egfr-antibody-western-blot-elisa/290704>