

Rabbit anti-Human, mouse ERBB3 Polyclonal Antibody | anti-ERBB3 antibody

ERBB3 Antibody (N-term)

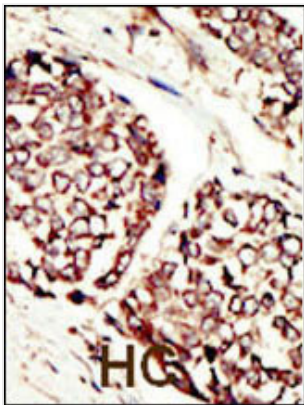
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290009	Rabbit	Human, mouse	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

ERBB3; Polyclonal Antibody; ERBB3 Antibody (N-term); Receptor tyrosine-protein kinase erbB-3; Proto-oncogene-like protein c-ErbB-3; Tyrosine kinase-type cell surface receptor HER3; HER3; anti-ERBB3 antibody

PRODUCT SPECIFICATIONS

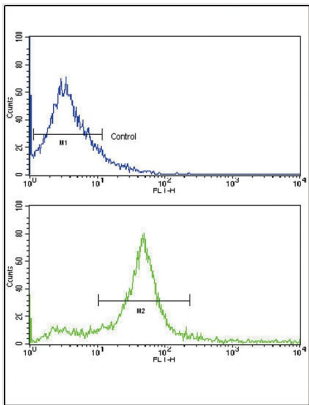
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ERBB3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 24-55 amino acids from the N-terminal region of human ERBB3.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	24-55
Sequence Length	699
Applicable Applications for anti-ERBB3 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Function	Tyrosine-protein kinase that plays an essential role as cell surface receptor for neuregulins. Binds to neuregulin-1 (NRG1) and is activated by it; ligand-binding increases phosphorylation on tyrosine residues and promotes its association with the p85 subunit of phosphatidylinositol 3-kinase (PubMed:). May also be activated by CSPG5 (PubMed:). Involved in the regulation of myeloid cell differentiation (PubMed:).
Cellular Location	[Isoform 1]: Cell membrane; Single-pass type I membrane protein
Tissue Location	Epithelial tissues and brain.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



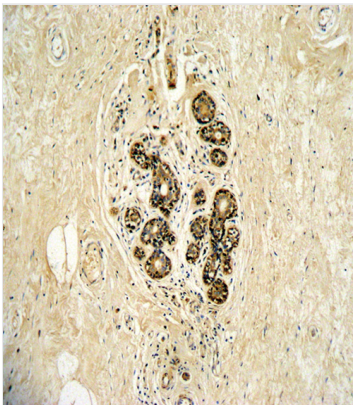
IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



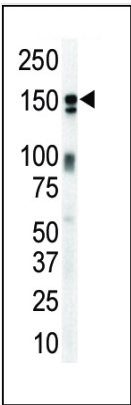
IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human breast carcinoma with ErbB3 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of 293 cells using ErbB3 Antibody (N-term) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohiostchemistry)
Formalin-fixed and paraffin-embedded human breast carcinoma with ErbB3 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of anti-ErbB3 Pab in mouse brain lysate. ErbB3 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

ADDITIONAL INFORMATION

Related Product Information for anti-ERBB3 antibody	ErbB3, a member of the EGF receptor family, binds and is activated by neuregulins and NTAK. It potentially forms a heterodimer with each of the other ERBB receptors. This protein is predominantly expressed in epithelial tissues and brain. The cytoplasmic part of the receptor may interact with the SH2 or SH3 domains of many signal-transducing proteins. Ligand-binding may increase phosphorylation on tyrosine residues and promote its association with the p85 subunit of phosphatidylinositol 3-kinase. ErbB3 is overexpressed in a subset of human mammary tumors.
Product Categories/Family for anti-ERBB3 antibody	Cancer; Cell Biology; Developmental Biology; Signal Transduction
References	Katoh, M., et al., Biochem. Biophys. Res. Commun. 192(3):1189-1197 (1993). Plowman, G.D., et al., Proc. Natl. Acad. Sci. U.S.A. 87(13):4905-4909 (1990). Kraus, M.H., et al., Proc. Natl. Acad. Sci. U.S.A. 86(23):9193-9197 (1989).

NCBI AND UNIPROT INFORMATION

NCBI GI #	54792102
NCBI GeneID	2065
NCBI Accession #	NP_001005915.1; NP_001973.2
NCBI GenBank Nucleotide #	NM_001005915.1
UniProt Accession #	P21860; Q9BUD7; A8K6L6; B4DIK7; B4DV32; E9PDT8
NCBI Official Full Name	receptor tyrosine-protein kinase erbB-3 isoform s
NCBI Official Synonym Full Names	erb-b2 receptor tyrosine kinase 3
NCBI Official Symbol	ERBB3
NCBI Official Synonym Symbols	HER3; LCCS2; ErbB-3; c-erbB3; erbB3-S; MDA-BF-1; c-erbB-3; p180-ErbB3; p45-sErbB3; p85-sErbB3
NCBI Protein Information	receptor tyrosine-protein kinase erbB-3
UniProt Protein Name	Receptor tyrosine-protein kinase erbB-3
UniProt Gene Name	ERBB3
UniProt Synonym Gene Names	HER3
UniProt Entry Name	ERBB3_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.