

## Human EGFR ELISA Kit | EGFR elisa kit

Human EGFR PicoKine Quick ELISA Kit

|                               |                            |                              |
|-------------------------------|----------------------------|------------------------------|
| CATALOG #<br><b>AAA126784</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA</b> |
|-------------------------------|----------------------------|------------------------------|

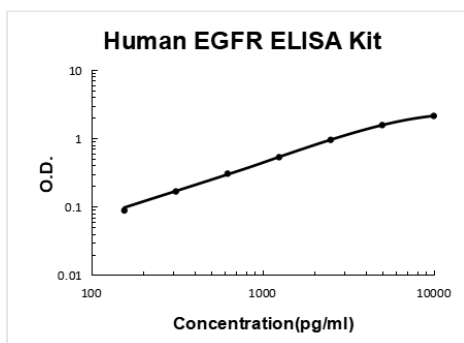
### PRODUCT SYNONYMS

EGFR; Human EGFR PicoKine Quick ELISA Kit; EGFR elisa kit

### PRODUCT SPECIFICATIONS

|                                            |                                                                                                                                                                                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                 | Human                                                                                                                                                                                           |
| Specificity                                | Natural and recombinant Human EGFR                                                                                                                                                              |
| Assay Type                                 | Sandwich                                                                                                                                                                                        |
| Samples                                    | Cell culture supernatants, serum, plasma (heparin, EDTA) and human milk                                                                                                                         |
| Detection Range                            | 156 pg/ml - 10,000 pg/ml                                                                                                                                                                        |
| Sensitivity                                | <1 pg/ml                                                                                                                                                                                        |
| Applicable Applications for EGFR elisa kit | ELISA                                                                                                                                                                                           |
| Intra-assay Precision                      | Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.                                               |
| Inter-assay Precision                      | Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.                                           |
| Preparation and Storage                    | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Ships with gel ice, can store for up to 3 days in room temperature. Freeze upon receiving.) |

### IMAGES



Standard Curve (Sample)

Human EGFR PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

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| Related Product Information for EGFR elisa kit | <p>Background: The epidermal growth factor receptor(EGFR; ErbB-1; HER1 in humans) is the cell-surface receptor for members of the epidermal growth factor family(EGF-family) of extracellular protein ligands.<sup>1</sup> It is a member of the ErbB family of receptors, a subfamily of four closely related receptor tyrosine kinases: EGFR(ErbB-1), HER2/c-neu(ErbB-2), Her 3(ErbB-3) and Her 4(ErbB-4). EGFR exists on the cell surface and is activated by binding of its specific ligands, including epidermal growth factor and transforming growth factor alpha(TGFalpha). EGFR and its ligands are cell signaling molecules involved in diverse cellular functions, including cell proliferation, differentiation, motility, and survival, and in tissue development. Mutations that lead to EGFR overexpression(known as upregulation) or overactivity have been associated with a number of cancers, including lung cancer and glioblastoma multiforme. In this latter case a more or less specific mutation of EGFR, called EGFRvIII is often observed.</p> <p>Principle of the Assay: The Quick Picokine™ Human EGFR Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human EGFR in cell culture supernatants, serum, plasma (heparin, EDTA) and human milk. It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit includes Human EGFR protein as standards. To measure Human EGFR, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product is linearly proportional to Human EGFR in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human EGFR in the sample.</p> |
| Product Categories/Family for EGFR elisa kit   | PicoKine ELISA Kits, Fast ELISA Kits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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                 | 134,277 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                                                                                                                                                                                                                |
| NCBI Protein Information         | epidermal growth factor receptor; proto-oncogene c-ErbB-1; cell growth inhibiting protein 40; cell proliferation-inducing protein 61; receptor tyrosine-protein kinase erbB-1; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog |
| UniProt Protein Name             | Epidermal growth factor receptor                                                                                                                                                                                                              |
| UniProt Gene Name                | EGFR                                                                                                                                                                                                                                          |
| 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.

