

Human ERBB3/Her3 PicoKine ELISA Kit | ERBB3 elisa kit

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CATALOG #
AAA46198

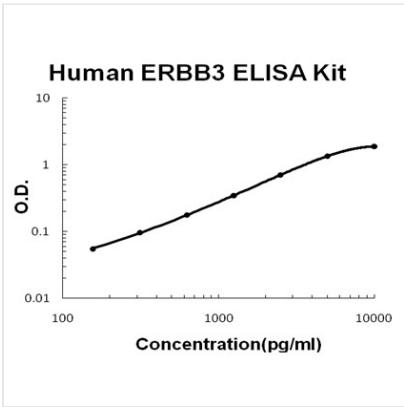
REACTIVITY
Human

PRODUCT SYNONYMS

ERBB3/Her3 PicoKine; Human ERBB3/Her3 PicoKine ELISA Kit; Receptor tyrosine-protein kinase erbB-3; c erbB 3; c erbB3; Erb b2 receptor tyrosine kinase 3; ErbB 3; ERBB3; ERBB3 protein; erbB3 S; ERBB3_HUMAN; Glial growth factor receptor; HER 3; HER3; Human epidermal growth factor receptor 3; LCCS2; MDA BF 1; MGC88033; p180 ErbB3; p45 sErbB3; p85 sErbB3; proto-oncogene-like protein c ErbB 3; proto-oncogene-like protein c ErbB3; Proto-oncogene-like protein c-ErbB-3; Receptor tyrosine protein kinase erbB 3; Receptor tyrosine protein kinase erbB3; Tyrosine kinase type cell surface receptor HER3; Tyrosine kinase-type cell surface receptor HER3; v erb b2 avian erythroblastic leukemia viral oncogene homolog 3; v erb b2 erythroblastic leukemia viral oncogene homolog 3 (avian); v erb b2 erythroblastic leukemia viral oncogene homolog 3 ; erb-b2 receptor tyrosine kinase 3; ERBB3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human ERBB3
Sequence Length	183
Assay Range	156pg/ml-10,000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of human ERBB3 in cell culture supernates, serum and plasma(heparin, EDTA).
Immunogen	NSO, S20-T643
Assay Procedure Step 1	Aliquot 0.1ml per well of the 10,000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml human ERBB3 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each human ERBB3 standard solution and each sample be measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(ng/ml) 1.65 4.4 6.25 1.37 3.56 7.19 Standard deviation 0.086 0.198 0.294 0.081 0.182 0.446 CV(%) 5.2 4.5 4.7 5.9 5.1 6.2
Sample Data	Concentration(pg/ml) 0 156 312 625 1250 2500 5000 10,000 O.D. 0.015 0.055 0.096 0.177 0.346 0.704 1.343 1.882
Anticoagulant	Heparin or EDTA
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human ERBB3/Her3 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for ERBB3 elisa kit	Principle of the assay: Human ERBB3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for ERBB3 has been precoated onto 96-well plates. Standards (NSO, S20-T643) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for ERBB3 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human ERBB3 amount of sample captured in plate. Background: Receptor tyrosine-protein kinase erbB-3, also known as HER3 (human epidermal growth factor receptor 3), is a membrane bound protein that in humans is encoded by the ERBB3 gene. ErbB3 has been shown to bind the ligands heregulin and NRG-2. Ligand binding causes a change in conformation that allows for dimerization, phosphorylation, and activation of signal transduction. ErbB3 can heterodimerize with any of the other three ErbB family members. The theoretical ErbB3 homodimer would be non-functional because the kinase-impaired protein requires transphosphorylation by its binding partner to be active. Unlike the other ErbB receptor tyrosine kinase family members which are activated through autophosphorylation upon ligand binding, ErbB3 is found to be kinase impaired, having only 1/1000th the autophosphorylation activity of EGFR and no ability to phosphorylate other proteins. Therefore, ErbB3 must act as an allosteric activator.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	54792102
NCBI GeneID	2065
NCBI Accession #	NP_001005915.1
NCBI GenBank Nucleotide #	NM_001005915.1
UniProt Accession #	P21860; Q9BUD7; A8K6L6; B4DIK7; B4DV32; E9PDT8
Molecular Weight	77,426 Da
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/erbb3-her3-picokine/46198>