

ARG81570 Human ERBB3 / HER3 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81570-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81570-002	Standard	2 X 10 ng/vial	4°C
ARG81570-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81570-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81570-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81570-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81570-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81570-008	25X Wash buffer	20 ml	4°C
ARG81570-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81570-010	STOP solution	10 ml (Ready to use)	4°C
ARG81570-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81570 Human ERBB3 / HER3 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human ERBB3 / HER3 in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	ERBB3 / HER3
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.8% Inter-Assay CV: 6.8%
Alternate Names	MDA-BF-1; LCCS2; p180-ErbB3; Proto-oncogene-like protein c-ErbB-3; c-erbB3; p85-sErbB3; Tyrosine kinase-type cell surface receptor HER3; p45-sErbB3; erbB3-S; HER3; c-erbB-3; ErbB-3; EC 2.7.10.1; Receptor tyrosine-protein kinase erbB-3

Application Instructions

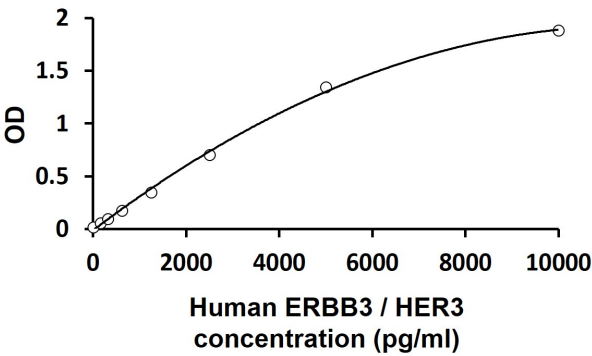
Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ERBB3
Gene Full Name	erb-b2 receptor tyrosine kinase 3
Background	This gene encodes a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. This membrane-bound protein has a neuregulin binding domain but not an active kinase domain. It therefore can bind this ligand but not convey the signal into the cell through protein phosphorylation. However, it does form heterodimers with other EGF receptor family members which do have kinase activity. Heterodimerization leads to the activation of pathways which lead to cell proliferation or differentiation. Amplification of this gene and/or overexpression of its protein have been reported in numerous cancers, including prostate, bladder, and breast tumors. Alternate transcriptional splice variants encoding different isoforms have been characterized. One isoform lacks the intermembrane region and is secreted outside the cell. This form acts to modulate the activity of the membrane-bound form. Additional splice variants have also been reported, but they have not been thoroughly characterized. [provided by RefSeq, Jul 2008]
Function	Binds and is activated by neuregulins and NTAK. May also be activated by CSPG5. [UniProt]
Highlight	Related products: ERBB3 antibodies ; ERBB3 ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Autophosphorylated (PubMed:20351256). Ligand-binding increases phosphorylation on tyrosine residues and promotes its association with the p85 subunit of phosphatidylinositol 3-kinase (PubMed:20682778). [UniProt]



ARG81570 Human ERBB3 / HER3 ELISA Kit standard curve image

ARG81570 Human ERBB3 / HER3 ELISA Kit results of a typical standard run with optical density reading at 450 nm.