

Human ErbB3 Antibody Pair Set

Catalog No.	E-KAB-0424	Applications	ELISA
Synonyms	Proto-oncogene-like protein c-ErbB-3; Tyrosine kinase-type cell surface receptor HER3; HER3		

Kit components & Storage

Title	Specifications	Storage
Human ErbB3 Capture Antibody	1 vial, 100 μg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Human ErbB3 Detection Antibody (Biotin)	1 vial, 50 μL	Store at -20°C for one year. Avoid freeze/thaw cycles.

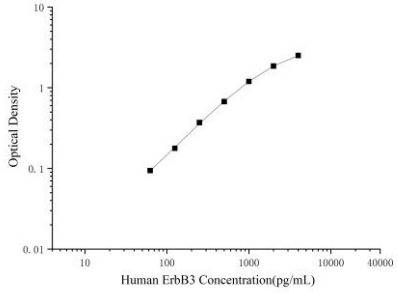
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0424)	
		Human ErbB3 Capture Antibody	Human ErbB3 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human ErbB3 protien	Recombinant Human ErbB3 protien
	Swissprot	P21860	
Product details	Reactivity	Human	Human
	Host	Mouse	Mouse
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5	PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5
	Purify	Protein A or G	Protein A or G
	Specificity	Detects Human ErbB3 in ELISAs.	

Applications

Human ErbB3 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images												
ELISA Capture	0.5-4 µg/mL	Human ErbB3 Capture Antibody	 <table border="1"> <caption>Standard Curve Data (Approximate)</caption> <thead> <tr> <th>Human ErbB3 Concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.1</td> </tr> <tr> <td>100</td> <td>0.2</td> </tr> <tr> <td>1000</td> <td>0.5</td> </tr> <tr> <td>10000</td> <td>1.0</td> </tr> <tr> <td>40000</td> <td>2.0</td> </tr> </tbody> </table>	Human ErbB3 Concentration (pg/mL)	Optical Density	10	0.1	100	0.2	1000	0.5	10000	1.0	40000	2.0
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40000	2.0														
ELISA Detection	1:1000-1:10000	Human ErbB3 Detection Antibody (Biotin)													

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

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.