Human Receptor tyrosine-protein kinase erbB-3(ERBB3) ELISA kit

Product Code	CSB-EL007765HU
Abbreviation	ERBB3
Target Name	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)
Uniprot No.	P21860
Alias	ErbB-3, HER3, LCCS2, MDA-BF-1, MGC88033, c-erbB-3, c-erbB3, erbB3-S, p180-ErbB3, p45-sErbB3, p85-sErbB3, erbB-3|receptor tyrosine-protein kinase erbB-3|v-erb-b2 avian erythroblastic leukemia viral o
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	125 pg/mL-8000 pg/mL
Sensitivity	31.25 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Signal Transduction
Gene Names	ERBB3
Tag Info	quantitative
Protein Description	Sandwich
Target Details	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.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human ERBB3 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	87
	Range %	82-94
1:2	Average %	98
	Range %	94-103
1:4	Average %	102
	Range %	98-106
1:8	Average %	95
	Range %	90-100

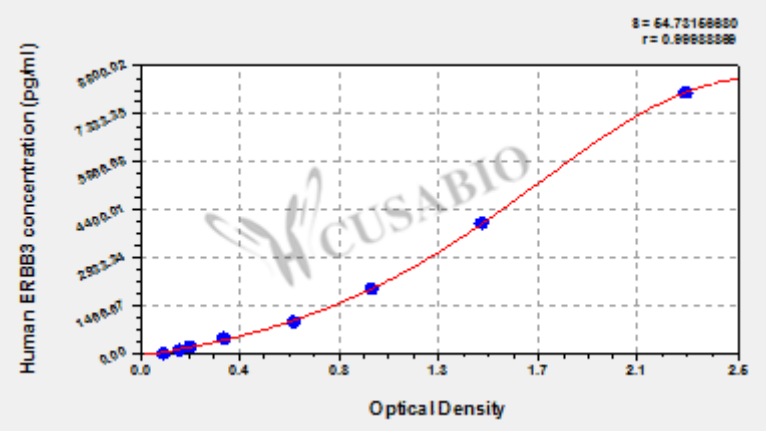
Recovery

The recovery of human ERBB3 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	92	88-97
EDTA plasma (n=4)	103	96-110

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
8000	2.292	2.267	2.280	2.172
4000	1.472	1.398	1.435	1.327
2000	0.956	0.998	0.977	0.869
1000	0.635	0.665	0.650	0.542
500	0.364	0.352	0.358	0.250
250	0.225	0.212	0.219	0.111
125	0.171	0.181	0.176	0.068
0	0.107	0.109	0.108	?

Msds

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