



# Human epidermal growth factor receptor 2 (sp185/HER2) ELISA Kit

<b>Product Code</b>	CSB-E11161h
<b>Abbreviation</b>	ERBB2
<b>Protein Biological Process 1</b>	Transcription/Transcription regulation
<b>Target Name</b>	v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)
<b>Uniprot No.</b>	P04626
<b>Alias</b>	CD340, HER-2, HER-2/neu, HER2, NEU, NGL, TKR1, c-erb B2/neu protein erbB-2 herstatin neuroblastoma/glioblastoma derived oncogene homolog v-erb-b2 avian erythroblastic leukemia viral oncogene homolog
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Protein Biological Process 3</b>	Transcription
<b>Sample Types</b>	serum, plasma, tissue homogenates, cell lysates
<b>Detection Range</b>	0.156 ng/mL-10 ng/mL
<b>Sensitivity</b>	0.04 ng/mL
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Signal Transduction
<b>Gene Names</b>	ERBB2
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich
<b>Description</b>	This Human ERBB2 ELISA Kit was designed for the quantitative measurement of Human ERBB2 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.04 ng/mL.
<b>Target Details</b>	This gene encodes a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of



its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported, with the most common allele, Ile654/Ile655, shown here. Amplification and/or overexpression of this gene has been reported in numerous cancers, including breast and ovarian tumors. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully 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 sp185/HER2 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)
1:5	Average %	103
	Range %	94-107
1:10	Average %	98
	Range %	91-101
1:20	Average %	92
	Range %	86-95
1:40	Average %	106
	Range %	95-110

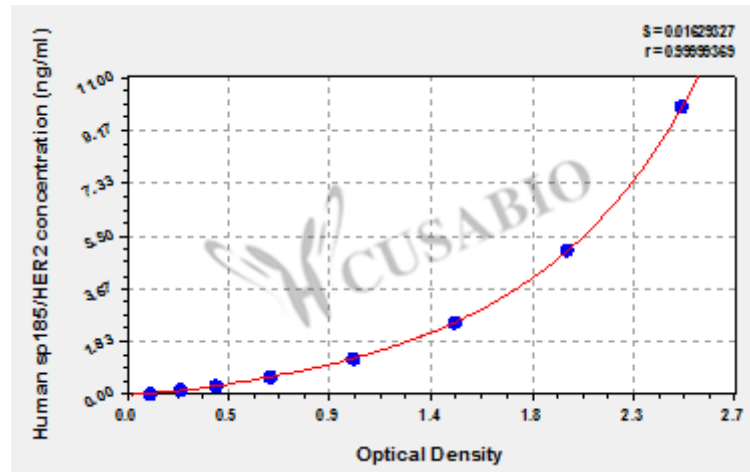
## Recovery

The recovery of human sp185/HER2 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)	102	94-106
EDTA plasma (n=4)	94	88-98

## Typical

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



ng/ml	OD1	OD2	Average	Corrected
10	2.511	2.476	2.494	2.380
5	2.007	1.955	1.981	1.867
2.5	1.497	1.452	1.475	1.361
1.25	1.040	1.007	1.024	0.910
0.625	0.655	0.642	0.649	0.535
0.312	0.416	0.404	0.410	0.296
0.156	0.253	0.248	0.251	0.137
0	0.112	0.116	0.114	?

## Msds

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