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ErbB2/Her2 ELISA Kit





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Quantity:	1 kit
Target:	ErbB2/Her2
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5 pg/mL - 4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	Synonyms: CD340, CD340 antigen, Cerb B2/neu protein, CerbB, HER2, Her2/neu, Herstatin,
	Metastatic lymph node gene 19 protein, MLN19, NEU, NEU Proto Oncogene, Neuro
	Glioblastoma Derived Oncogene Homolog, NGL, Proto oncogene c ErbB 2, Proto oncogene Neu,
	Receptor protein tyrosine kinase ErbB2 precursor, Receptor tyrosine protein kinase erbB 2,
	TKR1, Tyrosine kinase type cell surface receptor HER2, v erb b2 erythroblastic leukemia viral
	oncogene homolog 2 neuro/glioblastoma derived oncogene homolog
	Background: HER2/neu(also known as ErbB-2) stands for "Human Epidermal growth factor
	Receptor 2" and is a protein giving higher aggressiveness in breast cancers. It is a member of

the ErbB protein family, more commonly known as the epidermal growth factor receptor family. HER2/neu has also been designated as CD340(cluster of differentiation 340) and p185. It is encoded by the ERBB2 gene. HER2 is a cell membrane surface-bound receptor tyrosine kinase and is normally involved in the signal transduction pathways leading to cell growth and differentiation. It is encoded within the genome by HER2/neu, a known proto-oncogene. HER2 is thought to be an orphan receptor, with none of the EGF family of ligands able to activate it. However, ErbB receptors dimerise on ligand binding, and HER2 is the preferential dimerisation partner of other members of the ErbB family.1 The HER2 gene is a proto-oncogene located at the long arm of human chromosome 17(17q21-q22)2.

Gene Name: ERBB2

Production: Natural and recombinant human ErbB-2. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: T23-T652

Target Details

Target:	ErbB2/Her2	
Alternative Name:	ErbB-2 (ErbB2/Her2 Products)	
Gene ID:	2064	
NCBI Accession:	NP_001005862	
UniProt:	P04626	
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin	
	Signaling Pathway, Skeletal Muscle Fiber Development	

Application Details

Application Notes:

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL human ErbB-2 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernatants, serum, plasma(heparin, EDTA) or tissue lysates to each empty well. It is recommended that each human ErbB-2 standard solution and each sample be measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 62.5pg/mL-4000pg/mL

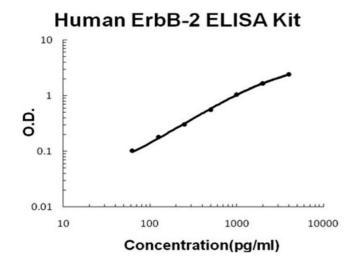
Application Details

Sample Volume:	100 μL
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at
	room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only
	prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid
	cycles of freezing and thawing.

Images



ELISA

Image 1. Human ErbB-2 Accusignal ELISA Kit Human ErbB-2 AccuSignal ELISA Kit standard curve. Assay
Range: 62.5pg/ml-4000pg/ml. Sensitivity: <10pg/ml.