

Datasheet for ABIN921095 ErbB2/Her2 ELISA Kit

1 Image

1 Publication



Overview

Quantity:	96 tests
Target:	ErbB2/Her2
Binding Specificity:	AA 23-652
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human ErbB-2
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: T23-T652
Specificity:	Expression system for standard: NSO Immunogen sequence: T23-T652
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN921095 | 07/26/2024 | Copyright antibodies-online. All rights reserved.

Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

Target Details

Target:	ErbB2/Her2
Alternative Name:	ERBB2 (ErbB2/Her2 Products)
Background:	Protein Function: Protein tyrosine kinase that is part of several cell surface receptor complexes
	but that apparently needs a coreceptor for ligand binding. Essential component of a neuregulir
	receptor complex, although neuregulins do not interact with it alone. GP30 is a potential ligand
	for this receptor. Regulates outgrowth and stabilization of peripheral microtubules (MTs). Upo
	ERBB2 activation, the MEMO1-RHOA-DIAPH1 signaling pathway elicits the phosphorylation an
	thus the inhibition of GSK3B at cell membrane. This prevents the phosphorylation of APC and
	CLASP2, allowing its association with the cell membrane. In turn, membrane-bound APC allow
	the localization of MACF1 to the cell membrane, which is required for microtubule capture and
	stabilization.
	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.
	Synonyms: Receptor tyrosine-protein kinase erbB-2,2.7.10.1,Metastatic lymph node gene 19
	protein,MLN 19,Proto-oncogene Neu,Proto-oncogene c-ErbB-2,Tyrosine kinase-type cell surfac
	receptor HER2,p185erbB2,CD340,ERBB2,HER2, MLN19, NEU, NGL,
	Full Gene Name: Receptor tyrosine-protein kinase erbB-2
	Cellular Localisation: Isoform 1: Cell membrane, Single-pass type I membrane protein.

	Cytoplasm, perinuclear region. Nucleus. Translocation to the nucleus requires endocytosis, probably endosomal sorting and is mediated by importin beta-1/KPNB1.
Gene ID:	2064
UniProt:	P04626
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Skeletal Muscle Fiber Development

Application Details

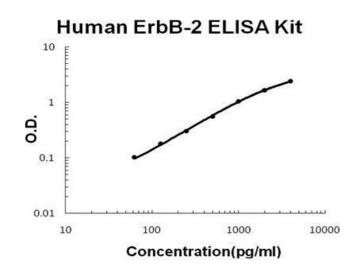
Target Details

Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
assay was recommended for both standard and sample testing.
Sequence similarities: Belongs to the protein kinase superfamily. Tyr protein kinase family. EGF
receptor subfamily.
Tissue Specificity: Expressed in a variety of tumor tissues including primary breast tumors and
tumors from small bowel, esophagus, kidney and mouth
Pre-coated
human ErbB-2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
assay technology. A monoclonal antibody from mouse specific for ErbB-2 has been precoated
onto 96-well plates. Standards(NSO, T23-T652) and test samples are added to the wells, a
biotinylated detection polyclonal antibody from goat specific for ErbB-2 is added subsequently
and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was
added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate
TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a
blue color product that changed into yellow after adding acidic stop solution. The density of
yellow is proportional to the human ErbB-2 amount of sample captured in plate.
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. See "Sample Dilution Guideline" above for details. It is
recommended that each human ErbB-2 standard solution and each sample be measured in
duplicate.
Sample 1: n=16, Mean(pg/ml): 348, Standard deviation: 14.62, CV(%): 4.2

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN921095 | 07/26/2024 | Copyright antibodies-online. All rights reserved.

Application Details	
	 Sample 2: n=16, Mean(pg/ml): 1057, Standard deviation: 45.45, CV(%): 4.3 Sample 3: n=16, Mean(pg/ml): 2334, Standard deviation: 91.03, CV(%): 3.9, Sample 1: n=24, Mean(pg/ml): 361, Standard deviation: 21.3, CV(%): 5.9 Sample 2: n=24, Mean(pg/ml): 1049, Standard deviation: 67.14, CV(%): 6.4 Sample 3: n=24, Mean(pg/ml): 2645, Standard deviation: 140.2, CV(%): 5.3
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months
Publications	
Product cited in:	Tao, Suhua, Juanjuan, Zongzhi, Juan, Dandan: "In vitro study on human cytomegalovirus affecting early pregnancy villous EVT's invasion function." in: Virology journal , Vol. 8, pp. 114, (2011) (PubMed).

Images



ELISA

Image 1. Human ErbB-2 PicoKine ELISA Kit standard curve

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN921095 | 07/26/2024 | Copyright antibodies-online. All rights reserved.