

Human Epidermal Growth Factor Receptor 2 (sp185/HER2) ELISA Kit | SP185/HER2 elisa kit

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CATALOG #
AAA331976

REACTIVITY
Human

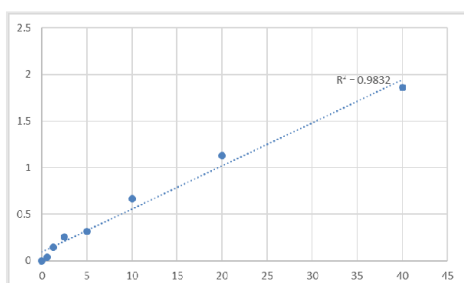
PRODUCT SYNONYMS

Epidermal Growth Factor Receptor 2 (sp185/HER2); Human Epidermal Growth Factor Receptor 2 (sp185/HER2) ELISA Kit; ERBB2; 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; SP185/HER2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Epidermal growth factor receptor 2 (sp185/HER2) ELISA Kit has high sensitivity and excellent specificity for detection of Human ERBB2. No significant cross-reactivity or interference between Human ERBB2 and analogues was observed.
Sequence Length	1225
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Epidermal growth factor receptor 2 (sp185/HER2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SP185/HER2 elisa kit	Description: This Human Epidermal growth factor receptor 2 (sp185/HER2) ELISA Kit employs a two-site sandwich ELISA to quantitate ERBB2 in samples. An antibody specific for ERBB2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ERBB2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ERBB2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ERBB2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: epidermal growth factor receptor 2 is 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	54792098
NCBI GeneID	2064
NCBI Accession #	NP_001005862.1
NCBI GenBank Nucleotide #	NP_001005862.1
UniProt Accession #	P04626
NCBI Official Full Name	receptor tyrosine-protein kinase erbB-2 isoform b
NCBI Official Synonym Full Names	erb-b2 receptor tyrosine kinase 2
NCBI Official Symbol	ERBB2
NCBI Official Synonym Symbols	NEU; NGL; HER2; TKR1; CD340; HER-2; MLN 19; HER-2/neu
NCBI Protein Information	receptor tyrosine-protein kinase erbB-2
UniProt Protein Name	Receptor tyrosine-protein kinase erbB-2
UniProt Gene Name	ERBB2
UniProt Synonym Gene Names	HER2; MLN19; NEU; NGL; MLN 19
UniProt Entry Name	ERBB2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.