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## Datasheet for ABIN6719893 **ERBB3 ELISA Kit**

### Overview

Quantity:	1 kit
Target:	ERBB3
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156 pg/mL - 10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

### Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Lysate, Cell Culture Supernatant, Plasma (EDTA - heparin), Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: c erbB3, Erb b2 receptor tyrosine kinase 3, ERBB3 protein, erbB3 S, ERBB3_HUMAN, Glial growth factor receptor, HER 3, R3, Human epidermal growth factor receptor 3, LCCS2, MDA BF 1, p180 ErbB3, p45 sErbB3, p85 sErbB3, proto-oncogene-like protein c ErbB3, Receptor tyrosine protein kinase erbB 3, Tyrosine kinase type cell surface receptor HER3, Tyrosine kinase-type cell surface receptor HER3, v erb b2 avian erythroblastic leukemia viral oncogene homolog 3, v erb b2 erythroblastic leukemia viral oncogene homolog 3</p> <p>Background: Receptor tyrosine-protein kinase erbB-3, also known as HER3 (human epidermal</p>

## Product Details

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growth factor receptor 3), is a membrane bound protein that in humans is encoded by the ERBB3 gene. ErbB3 has been shown to bind the ligands heregulin and NRG-2. Ligand binding causes a change in conformation that allows for dimerization, phosphorylation, and activation of signal transduction. ErbB3 can heterodimerize with any of the other three ErbB family members. The theoretical ErbB3 homodimer would be non-functional because the kinase-impaired protein requires transphosphorylation by its binding partner to be active. Unlike the other ErbB receptor tyrosine kinase family members which are activated through autophosphorylation upon ligand binding, ErbB3 is found to be kinase impaired, having only 1/1000th the autophosphorylation activity of EGFR and no ability to phosphorylate other proteins. Therefore, ErbB3 must act as an allosteric activator.

Gene Name: ERBB3

Production: Natural and recombinant human ERBB3. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: S20-T643

## Target Details

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Target:	ERBB3
Alternative Name:	ERBB3 - Her3 ( <a href="#">ERBB3 Products</a> )
Gene ID:	2065
NCBI Accession:	<a href="#">NP_001005915</a>
UniProt:	<a href="#">P21860</a>
Pathways:	<a href="#">RTK Signaling</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a>

## Application Details

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Application Notes:	<p>Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL human ERBB3 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 supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each human ERBB3 standard solution and each sample be measured in duplicate.</p> <p>Blood Product Anticoagulant: Heparin Sodium</p>
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## Application Details

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ELISA Dilution: 156pg/mL-10,000pg/mL

Sample Volume: 100 µL

Plate: Pre-coated

Restrictions: For Research Use only

## Handling

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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.