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## Datasheet for ABIN7317895 **ERBB4 Protein (His tag)**

### Overview

Quantity:	100 µg
Target:	ERBB4
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ERBB4 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human/Rhesus HER4/ErbB4 Protein (His Tag)(Active)
Sequence:	Met 1-Arg649
Characteristics:	A DNA sequence encoding the human ERBB4 (NP_005226.1) (Met1-Arg649) with a C-terminal polyhistidine tag was expressed. Human and Rhesus ERBB4 sequences are identical.
Purity:	> 85 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized human ErbB4-His at 10 µg/ml (100 µl/well) can bind biotinylated human NRG1 , The EC50 of biotinylated human NRG1 is 0.4-0.92 µg/ml.

### Target Details

Target:	ERBB4
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## Target Details

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Alternative Name: [ErbB4 \(ERBB4 Products\)](#)

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Background: ERBB4 is a single-pass type I membrane protein with multiple cysteine rich domains; a transmembrane domain; a tyrosine kinase domain; a phosphatidylinositol-3 kinase binding site and a PDZ domain binding motif. ERBB4 is expressed at highest levels in brain; heart; kidney; in addition to skeletal muscle; parathyroid; cerebellum; pituitary; spleen; testis and breast. And lower levels in thymus; lung; salivary gland; and pancreas. It specifically binds to and is activated by neuregulins; NRG-2; NRG-3; heparin-binding EGF-like growth factor; betacellulin and NTAK. ERBB4 also can be activated by other factors and induces a variety of cellular responses including mitogenesis and differentiation. ERBB4 regulates development of the heart; the central nervous system and the mammary gland; gene transcription; cell proliferation; differentiation; migration and apoptosis. It is required for normal cardiac muscle differentiation during embryonic development; and for postnatal cardiomyocyte proliferation. ERBB4 also play a role on the normal development of the embryonic central nervous system; especially for normal neural crest cell migration and normal axon guidance. It is required for mammary gland differentiation; induction of milk proteins and lactation.

Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy

Synonym: Receptor tyrosine-protein kinase erbB-4; Proto-oncogene-like protein c-ErbB-4; Tyrosine kinase-type cell surface receptor HER4; p180erbB4; ERBB4; HER4

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Molecular Weight: 71.1 kDa

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NCBI Accession: [NP\\_005226](#)

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Pathways: [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#)

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## Application Details

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Comment: 102 kDa

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Reconstitution: Please refer to the printed manual for detailed information.

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Buffer: Lyophilized from sterile PBS, pH 7.4

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Storage: 4 °C,-20 °C,-80 °C

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## Handling

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Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.