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Datasheet for ABIN7538508

## ERBB3 Protein (AA 544-643) (mFc Tag)

### 1 Image

#### Overview

Quantity:	50 µg
Target:	ERBB3
Protein Characteristics:	AA 544-643
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ERBB3 protein is labelled with mFc Tag.

#### Product Details

Purpose:	Recombinant human HER3(544-643) Protein with C-terminal mouse Fc tag
Specificity:	HER3 (Ala544-Thr643) mFc (Pro99-Lys330)
Characteristics:	Extracellular Domain Protein
Purification:	Purified from cell culture supernatant by affinity chromatography
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

#### Target Details

Target:	ERBB3
Alternative Name:	HER3 ( <a href="#">ERBB3 Products</a> )
Background:	This gene encodes a member of the epidermal growth factor receptor (EGFR) family of

## Target Details

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receptor tyrosine kinases. This membrane-bound protein has a neuregulin binding domain but not an active kinase domain. It therefore can bind this ligand but not convey the signal into the cell through protein phosphorylation. However, it does form heterodimers with other EGF receptor family members which do have kinase activity. Heterodimerization leads to the activation of pathways which lead to cell proliferation or differentiation. Amplification of this gene and/or overexpression of its protein have been reported in numerous cancers, including prostate, bladder, and breast tumors. Alternate transcriptional splice variants encoding different isoforms have been characterized. One isoform lacks the intermembrane region and is secreted outside the cell. This form acts to modulate the activity of the membrane-bound form. Additional splice variants have also been reported, but they have not been thoroughly characterized. [provided by RefSeq, Jul 2008]

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Molecular Weight: predicted molecular mass of 36.9 kDa after removal of the signal peptide. The apparent molecular mass of HER3(544-643)-mFc is 35-55 kDa due to glycosylation.

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UniProt: [P21860](#)

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

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

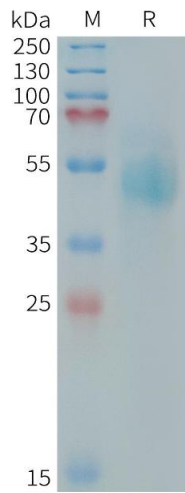
Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.

Storage: -20 °C,-80 °C

Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).  
Lyophilized proteins are shipped at ambient temperature.

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Expiry Date: 12 months



### SDS-PAGE

**Image 1.** Human (544-643) Protein, mFc Tag on SDS-PAGE under reducing condition.