

Datasheet for ABIN7321221
ErbB2/Her2 Protein



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1 Image

Overview

Quantity:	50 µg
Target:	ErbB2/Her2
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant Rat HER2/ErbB2 Protein (Active)
Sequence:	Met 4-Thr 656
Characteristics:	A DNA sequence encoding the rat ErbB2 (AAH61863.1) extracellular domain (Met 4-Thr 656) was expressed and purified, with seven additional amino acids (ALEVLFQ) at the C-terminus.
Purity:	> 92 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method
Biological Activity Comment:	1.Measured by its binding ability in a functional ELISA. 2.Immobilized rat ErbB2 at 10µg/mL (100µL/well) can bind herceptin, the EC50 of herceptin is 30-90ng/mL.

Target Details

Target:	ErbB2/Her2
Alternative Name:	HER2/ErbB2 (ErbB2/Her2 Products)

Target Details

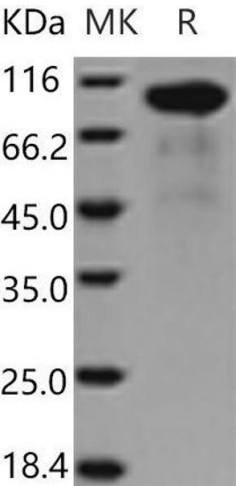
Background:	<p>Background: Epidermal growth factor receptor 2 (HER2), also known as ErbB2, NEU, and CD340, is a type I membrane glycoprotein, and belongs to the epidermal growth factor (EGF) receptor family. HER2 protein cannot bind growth factors due to the lacking of ligand binding domain of its own and autoinhibited constitutively. However, HER2 forms a heterodimer with other ligand-bound EGF receptor family members, therefore stabilizes ligand binding and enhances kinase-mediated activation of downstream molecules. HER2 plays a key role in development, cell proliferation and differentiation. HER2 gene has been reported to associate with malignancy and a poor prognosis in numerous carcinomas, including breast, prostate, ovarian, lung cancers and so on.</p> <p>Immune Checkpoint Immunotherapy Cancer</p> <p>Immunotherapy Targeted Therapy</p> <p>Synonym: ErbB2;Neu;p185erbB2</p>
Molecular Weight:	70.6 kDa
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Skeletal Muscle Fiber Development

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>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.</p>



Western Blotting

Image 1.