



[Go to Product page](#)

Datasheet for ABIN6964074

ErbB2/Her2 Protein (His tag)

1 Image

Overview

Quantity:	100 µg
Target:	ErbB2/Her2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ErbB2/Her2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant human Her2 Protein with C-terminal 6xHis tag
Specificity:	Her2 (Thr23-Thr652) 6xHis tag
Characteristics:	Extracellular Domain Protein
Purification:	affinity purification
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	ErbB2/Her2
Alternative Name:	Her2 (ErbB2/Her2 Products)
Background:	Synonymes: ERBB2,CD340,HER-2/neu,HER2,MLN19,NEU,NGL,TKR1 Description: This gene encodes 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

Target Details

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. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully characterized.

Molecular Weight:	predicted molecular mass of 70.2 kDa after removal of the signal peptide. The apparent molecular mass of Her2-His is 100-130 kDa due to glycosylation.
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Gene ID:	2064
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UniProt:	P04626
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Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Skeletal Muscle Fiber Development
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Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
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Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	Reconstitute with deionized water
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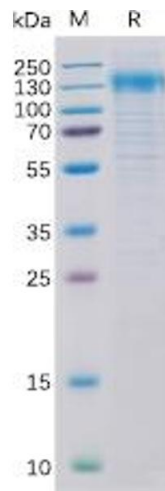
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
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Preservative:	Without preservative
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Storage:	-20 °C, -80 °C
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Storage 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
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SDS-PAGE

Image 1. Human Her2 Protein, His Tag on SDS-PAGE under reducing condition.