

# Human Her2/ErbB2 Domain 4 Protein

Cat. No. HER-HM404

## Description

<b>Source</b>	Recombinant Human Her2/ErbB2 Domain 4 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Pro489-Cys630.
<b>Accession</b>	P04626-1
<b>Molecular Weight</b>	The protein has a predicted MW of 18.5 kDa. Due to glycosylation, the protein migrates to 28-40 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

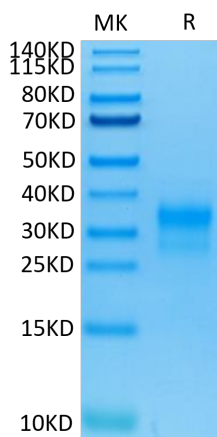
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

ErbB2, also called Neu and Her2 (human epidermal growth factor receptor 2), is a type I membrane glycoprotein that is a member of the ErbB family of tyrosine kinase receptors. ErbB family members serve as receptors for the epidermal growth factor (EGF) family of growth factors. Upon ERBB2 activation, the MEMO1-RHOA-DIAPH1 signaling pathway elicits the phosphorylation and thus the inhibition of GSK3B at cell membrane. This prevents the phosphorylation of APC and CLASP2, allowing its association with the cell membrane.

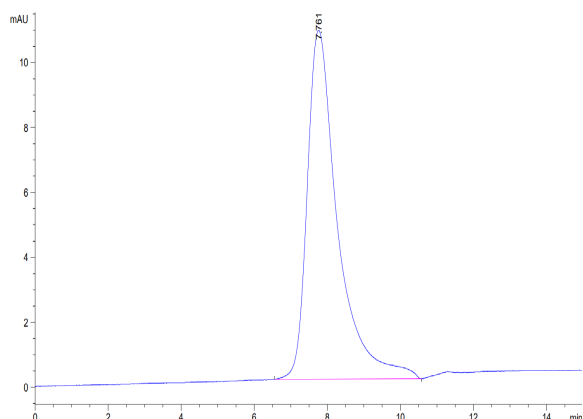
## Assay Data

### Bis-Tris PAGE



Human Her2 Domain 4 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



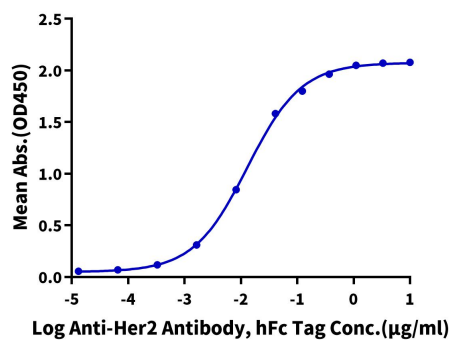
The purity of Human Her2 Domain 4 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Human Her2 Domain 4, His Tag ELISA**

0.1µg Human Her2 Domain 4, His Tag Per Well



Immobilized Human Her2 Domain 4, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-Her2 Antibody, hFc Tag with the EC50 of 13.1ng/ml determined by ELISA.