

Human Her2/ErbB2 Protein

Cat. No. HER-HM402



Description

| | |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Source | Recombinant Human Her2/ErbB2 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Thr23-Thr652. |
| Accession | P04626-1 |
| Molecular Weight | The protein has a predicted MW of 72.3 kDa. Due to glycosylation, the protein migrates to 80-100 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 1EU per μg by the LAL method. |
| Purity | > 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC |

Formulation and Storage

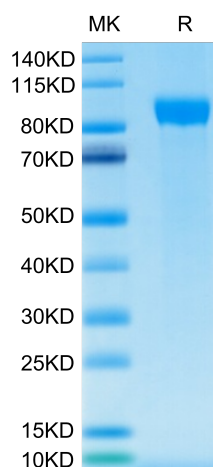
| | |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Formulation | Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage | -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.

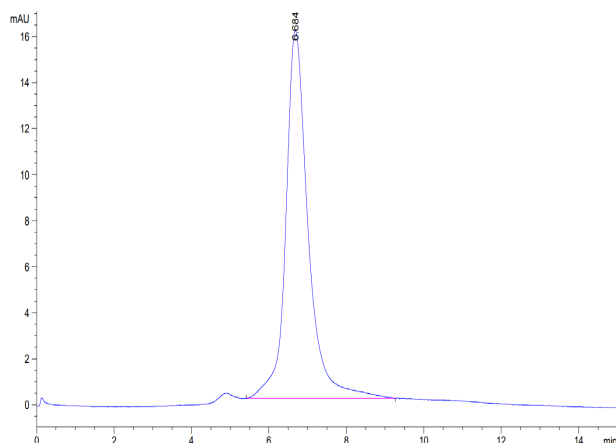
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



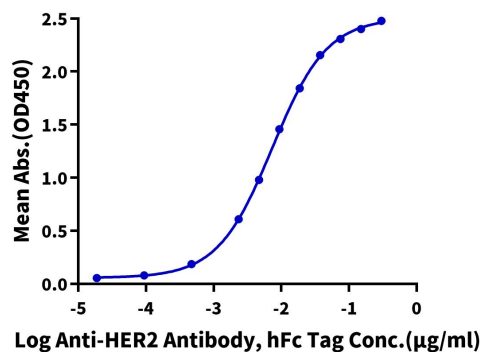
The purity of Human Her2 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human Her2, His Tag ELISA

0.05µg Human Her2, His Tag Per Well



Immobilized Human Her2, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-Her2 Antibody, hFc Tag with the EC50 of 7.4ng/ml determined by ELISA (QC Test).