

Human Her2/ErbB2 Protein, Ultra Low Endotoxin



Cat. No. HER-HM202-UL

| Description | |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Source | Recombinant Human Her2/ErbB2 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Thr23-Thr652. |
| Accession | P04626-1 |
| Molecular Weight | The protein has a predicted MW of 96.1 kDa. Due to glycosylation, the protein migrates to 100-120 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 0.001 EU 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 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions. |
| 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 | |
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| 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

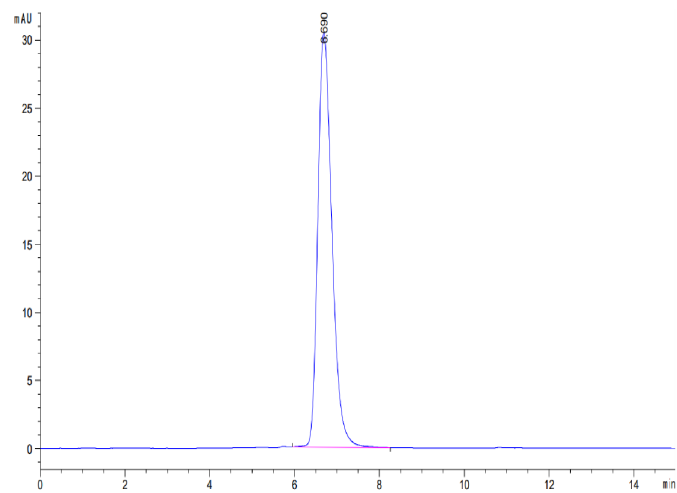
Bis-Tris PAGE



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

SEC-HPLC

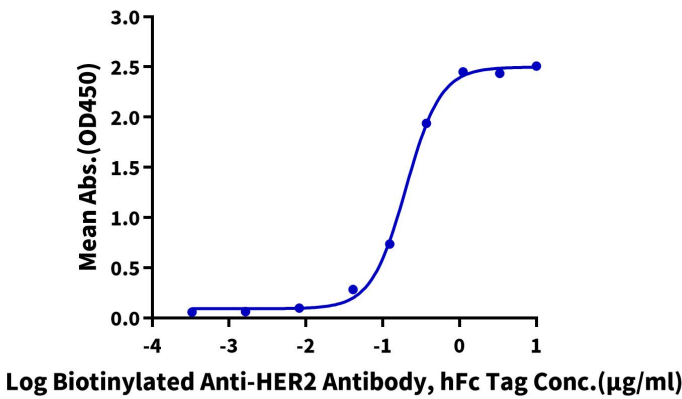
Assay Data



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

ELISA Data

Human Her2, hFc Tag ELISA
0.5µg Human Her2, hFc Tag Per Well



Immobilized Human Her2, hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-Her2 Antibody , hFc Tag with the EC50 of 0.20µg/ml determined by ELISA (QC Test).