

Non-biotinylated 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 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

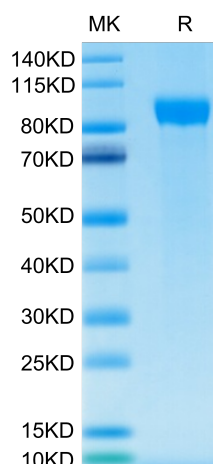
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

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.

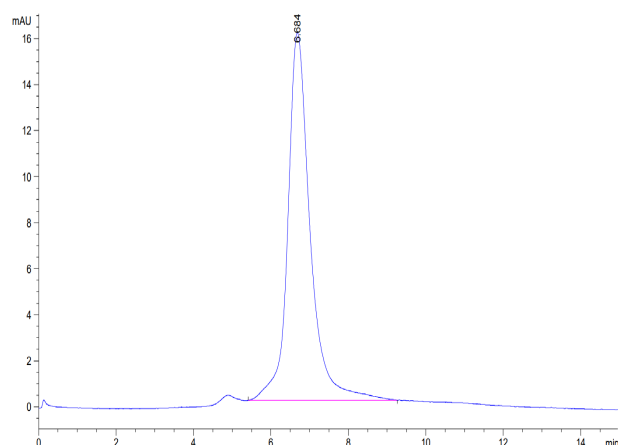
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



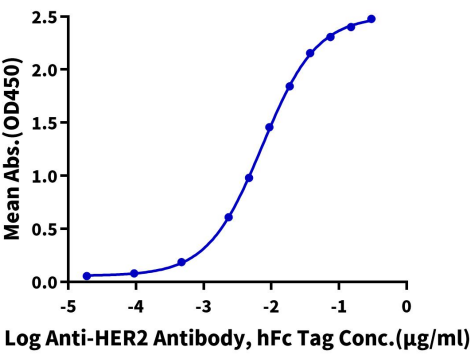
The purity of Human Her2 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

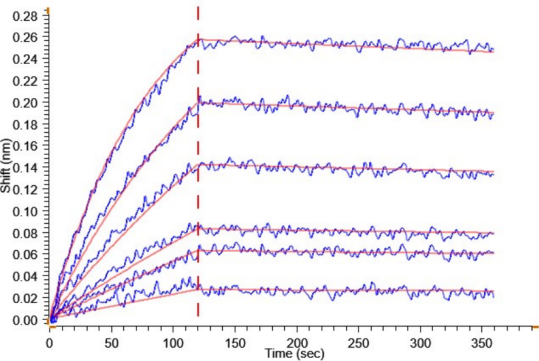
Human Her2, His Tag ELISA

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).

BLI Data



Loaded Anti-HER2 Antibody on ProA-Biosensor can bind Human Her2, His Tag with an affinity constant of 32 nM as determined in BLI assay (Gator® Prime).