

Human EPHB2 Protein

Cat. No. EPH-HM101

Description

Source	Recombinant Human EPHB2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Val19-Leu543.
Accession	P29323-1
Molecular Weight	The protein has a predicted MW of 59.2 kDa. Due to glycosylation, the protein migrates to 65-75 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis 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	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

EphB2, a receptor tyrosine kinase for ephrin ligands, is overexpressed in various cancers and plays an important role in tumor progression. EPHB2 promotes endothelial-mesenchymal transition (EMT) and elicits associated pathologic characteristics of glioblastoma multiforme (GBM) such as invasion and migration. EPHB2 is epigenetically overexpressed in hypoxia, a condition highly prevalent in malignancy. Furthermore, HIF-2α is required for EPHB2 stabilization by hypoxia.

Assay Data

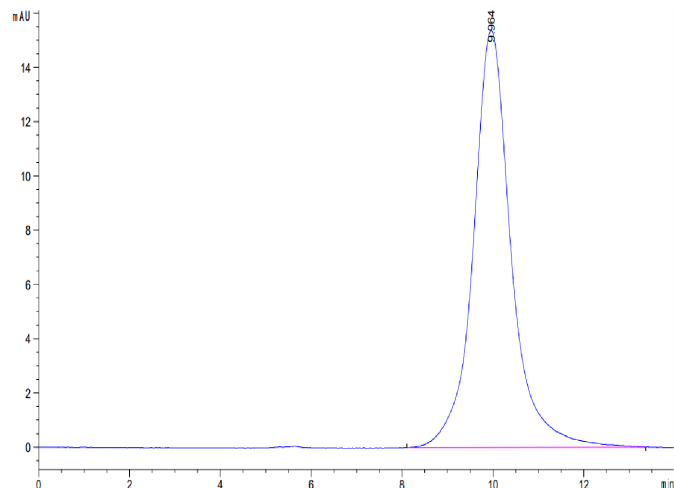
Tris-Bis PAGE



Human EPHB2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data

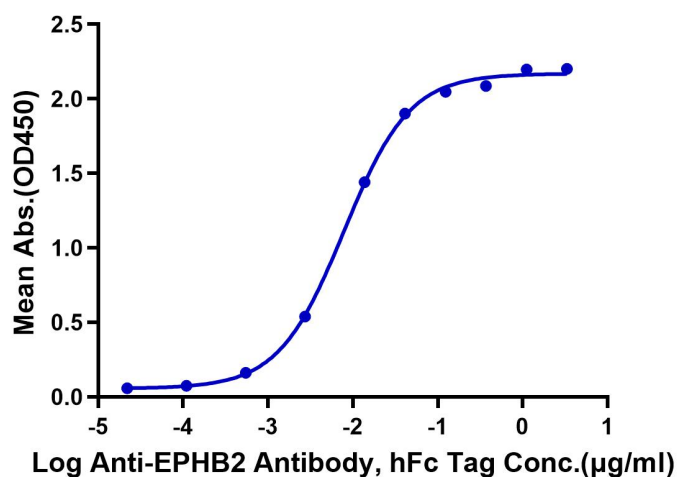


The purity of Human EPHB2 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human EPHB2, His Tag ELISA

0.05µg Human EPHB2, His Tag Per Well



Immobilized Human EPHB2, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-EPHB2 Antibody, hFc Tag with the EC50 of 8.0ng/ml determined by ELISA.