

# Cynomolgus EPHB2 Protein

Cat. No. EPH-CM102



## Description

<b>Source</b>	Recombinant Cynomolgus EPHB2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Val19-Pro542.
<b>Accession</b>	A0A7N9CQH5
<b>Molecular Weight</b>	The protein has a predicted MW of 59.09 kDa. Due to glycosylation, the protein migrates to 65-75 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

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.

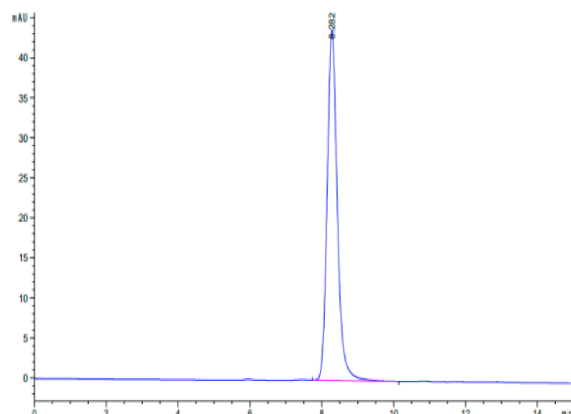
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



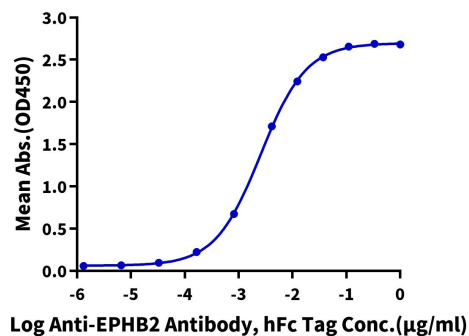
The purity of Cynomolgus EPHB2 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Cynomolgus EPHB2, His Tag ELISA**

0.1µg Cynomolgus EPHB2, His Tag Per Well



Immobilized Cynomolgus EPHB2, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Anti-EPHB2 Antibody, hFc Tag with the EC50 of 2.6ng/ml determined by ELISA.