

Recombinant Human EPHB6 protein (rFc Tag)

Catalog Number: Eg4219

Basic Information

Species:
 Human

Purity:
 >90 %, SDS-PAGE

Tag:
 rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human EPHB6 protein Leu32-Ser594 (Accession# O15197-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

2051

Accession:

O15197-1

Predicted Molecular Mass:

86.4 kDa

SDS-PAGE:

85-100 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

EPHB6 (Eph receptor B6) belongs to the Eph receptor family and is a receptor tyrosine pseudokinase that lacks intrinsic kinase activity and regulates cell adhesion and migration by binding to ephrin-B family proteins. EphB6 is a protein expressed in all tissues, and has been shown to be important for the maintenance of physiological homeostasis in areas such as the kidneys, vascular smooth muscle, and immune system T cells. EphB6 is a protein expressed in all tissues and has been shown to be important for the maintenance of physiological homeostasis in areas such as the kidney, vascular smooth muscle and T cells of the immune system. (PMID: 34360976) The role of EphB6 in cancer is quite complex as it not only down-regulates and inhibits the invasiveness of a wide range of malignant tumors and cancer cells, but also supports tumorigenesis in colorectal and breast cancers. It is now suggested that the interaction of EphB6 and hepcidin B1 may control tumorigenesis, e.g., the co-aggregation of EphB6 and ephrinB1 reduced the invasiveness of the breast cancer cell line MDA-MB-231.

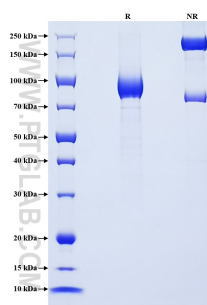
References

1. Strozen TG, et al. Int J Mol Sci. 2021;22(15):8211.
2. Liang LY, et al. Commun Biol. 2024;7(1):461.

Synonyms

EPH receptor B6, Ephrin type B receptor 6, Ephrin type-B receptor 6, HEP, Tyrosine-protein kinase-defective receptor EPH-6

Selected Validation Data



Purity of Recombinant Human EPHB6 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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