For Research Use Only

Recombinant Mouse Epha2 protein (rFc Tag)

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Catalog Number: Eg8778

Basic Information

Species:
Mouse

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 Mouse Epha2 protein Lys26-Val538 (Accession# Q03145) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
13836

Accession:
Q03145

Predicted Molecular Mass:
82.4 kDa

SDS-PAGE:
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℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ 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

EPHA2 (Eph receptor A2) is a type I single-transmembrane protein belonging to the Ephrin receptor subfamily of the receptor tyrosine kinase (RTK) family. This protein consists of an extracellular ligand-binding domain, a transmembrane domain, and an intracellular kinase domain, and is widely expressed on the surface of epithelial cells, endothelial cells, and various tumor cells. Under physiological conditions, EPHA2 participates in cell migration, adhesion, angiogenesis, and tissue boundary formation by binding to its ligands, such as Ephrin-A1. Under pathological conditions, abnormalities in the Epha2 signaling pathway are closely related to tumor progression, metastasis, and drug resistance.

References

1. Irie, Naoko et al. The Journal of biological chemistry vol. 284,21 (2009): 14637-44.
2. Guo, Hong et al. Cancer research vol. 66,14 (2006): 7050-8.
3. Brantley-Sieders, Dana M et al. Journal of cell science vol. 117,Pt 10 (2004): 2037-49.

Synonyms

EC:2.7.10.1, Eck, Ephrin type-A receptor 2, Epithelial cell kinase, Myk2

Selected Validation Data

Purity of Recombinant Mouse Epha2 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.