For Research Use Only

Recombinant Human EPHA2 protein (Myc Tag, His Tag)

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Catalog Number: Eg0146

Basic Information

Species: Human

Purity: >90 %, SDS-PAGE

Tag: Myc Tag, His Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Human EPHA2 protein Ala24-Asn534 (Accession# P29317-1) with a Myc tag and a His tag at the C-terminus.

GeneID:
1969

Accession:
P29317-1

Predicted Molecular Mass:
61.2 kDa

SDS-PAGE:
60-85 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m 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 (Ephrin type-A receptor 2) belongs to the receptor tyrosine kinase (RTK) family, with 16 known receptors and 9 known membrane-bound ligands in all species. Based on the extracellular domain sequence homology, structure, and binding affinity, Eph receptors and their ephrin ligands can be divided into A and B subtypes. EPHA2 contains a conserved N-terminal ligand-bound extracellular domain, a transmembrane domain, and a conserved tyrosine kinase domain. EPHA2 interacts with ephrin-A family ligands residing on the neighboring cell and induce diverse signaling networks following cell-to-cell contact. EPHA2 is highly produced in tumor tissues and represents a potential target for treating malignant tumors.

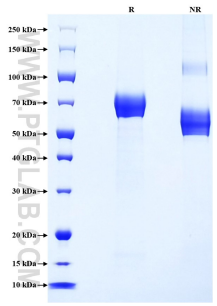
References

1. M P Beckmann, et al. (1994) EMBO J. 13(16):3757-62.
2. Ping Zhao, et al. (2021) J Genet Genomics. 48(4):261-267.
3. Ta Xiao, et al. (2020) J Hematol Oncol. 13(1):114.

Synonyms

EPHA2, EC:2.7.10.1, ECK, EPH receptor A2, Ephrin type A receptor 2

Selected Validation Data



Purity of Recombinant Human 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.