

For Research Use Only

Recombinant Human PTPRF protein (rFc Tag)



Catalog Number: Eg6919

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

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

Source:
HEK293-derived Human PTPRF protein Asp30-Trp1263 (Accession# P10586-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
5792

Accession:
P10586-1

Predicted Molecular Mass:
162 kDa

SDS-PAGE:
40-45 kDa, 120-140 kDa and 150-200 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°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

PTPRF (Protein Tyrosine Phosphatase Receptor Type F) is a receptor protein tyrosine phosphatase, also known as LAR. PTPRF is a transmembrane protein with extracellular domain, transmembrane domain and two intracellular catalytic domains in series. It is located in the cell membrane and participates in the interaction between cells or cell matrix. It is widely expressed in many tissues, including fat, skin, heart, lung, liver, kidney, pancreas, small intestine, colon, brain, skeletal muscle, spleen, peripheral white blood cells and so on. The protein plays an important role in regulating a variety of cell processes, including cell growth, differentiation, mitotic cycle and carcinogenic transformation. In the insulin-responsive tissues of obese and insulin-resistant individuals, the expression level of PTPRF is increased, which may contribute to the pathogenesis of insulin resistance. PTPRF showed expression changes in many cancers, such as breast cancer, thyroid cancer, non-small cell lung cancer and so on. In gastric adenocarcinoma, PTPRF, as a new tumor suppressor, plays a role by inactivating ERK1/2 signaling pathway.

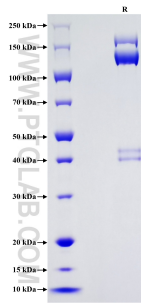
References

- 1.Konishi, N et al. British journal of cancer vol. 88,8 (2003): 1223-8.
- 2.Soulières, Denis et al. Journal of thoracic oncology vol. 10,9 (2015): 1364-1369.
- 3.Tian, Xiang'an et al. OncoTargets and therapy vol. 11 7795-7803. 2 Nov. 2018, doi:10.2147/OTT.S178152

Synonyms

EC:3.1.3.48, LAR, Receptor-type tyrosine-protein phosphatase F

Selected Validation Data



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

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

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