For Research Use Only

Recombinant Mouse TREM2 protein (rFc Tag)

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Catalog Number: Eg10946

Basic Information

Species:
Mouse

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 Mouse TREM2 protein Leu19-Ser171 (Accession# Q99NH8-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
83433

Accession:
Q99NH8-1

Predicted Molecular Mass:
42.4 kDa

SDS-PAGE:
50-65 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

TREM2 (triggering receptor expressed on myeloid cells 2) is a cell surface receptor belongs to TREM family that is expressed on osteoclast, dendritic cells, macrophages, nature killers, neutrophils and microglia. TREM2 is localized predominantly in the Golgi complex, but also shuttles to and from the cell surface in endocytic and exocytic vesicles. TREM2 associates with DAP12 to initiate the intracellular signalling cascade via an immunoreceptor tyrosine-based activation motif (ITAM) domain and tyrosine-kinases.

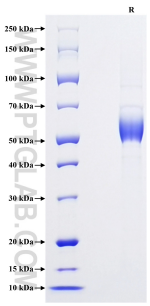
References

1. Prada, I et al. Neuroscience vol. 140,4 (2006): 1139-48.
2. Hsieh, Christine L et al. J Neurochem. vol. 109,4 (2009): 1144-56.
3. Chertoff, Mariela et al. PloS one vol. (2013): 8(8):e72083.

Synonyms

TREM-2, Trem2a, Trem2b, Trem2c, Triggering receptor expressed on monocytes 2

Selected Validation Data



Purity of Recombinant Mouse TREM2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.