

For Research Use Only

Recombinant Mouse BST2 protein (mFc Tag)



Catalog Number: Eg4042

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
mFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/μg protein, LAL method

Source:

HEK293-derived Mouse BST2 protein Thr52-Ser152 (Accession# Q8R2Q8) with a mouse IgG Fc tag at the C-terminus.

GeneID:

69550

Accession:

Q8R2Q8

Predicted Molecular Mass:

38.0 kDa

SDS-PAGE:

42-52 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

BST2, also named as CD317 and Tetherin, belongs to the tetherin family. It may be involved in the sorting of secreted proteins and it is involved in pre-B-cell growth. BST2 is an antiretroviral defense protein, that blocks retrovirus release from the cell surface. Depleted upon HIV-1 infection by viral VPU protein through 20S proteasome degradation. Depleted upon infection by human Kaposi's sarcoma-associated herpesvirus (KSHV) through ubiquitination and subsequent degradation. BST2 may play a role in B-cell activation in rheumatoid arthritis. It is recently identified interferon-induced cellular proteins that restrict infections by retroviruses and filoviruses and of influenza virus and flaviviruses, respectively. BST2 is a plasma membrane protein, tetherin inhibits virion particle release from infected cells. BST2 is effective against retroviruses and flaviviruses whilst IFITMs disrupt influenza and flavivirus infection.

References

1. Miyagi E, et al. (2019) Proc Natl Acad Sci U S A. 24;106(8):2868-73.
2. Skasko M, et al. (2011) Virology. 1;411(1):65-77.
3. Andrew AJ, et al. (2009) Retrovirology. 8;6:80.
4. Tanwattana N, et al. (2023) PLoS One. 3;18(11):e0292833.

Synonyms

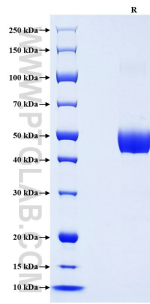
Bone marrow stromal antigen 2, BST-2, CD317, HM1.24 antigen

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

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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Selected Validation Data



Purity of Recombinant Mouse BST2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.