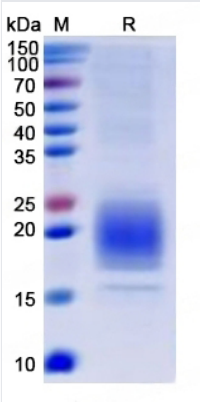
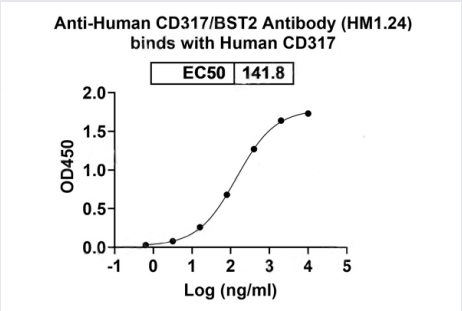
CD317/BST2 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CD317/BST2, Recombinant Protein
Full Product Name	Recombinant Human CD317/BST2 Protein, C-His
Product Gene Name	CD317/BST2 recombinant protein
Product Synonym Names	Tetherin; Bone marrow stromal antigen 2; BST2; BST-2; CD317; HM1.24 antigen
Host	Mammalian
Form/Format	Liquid; 0.01M PBS, pH7.4.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	19,769 Da
Sequence Positions	Asn49-Ser160
Chromosome Location	Chromosome: 19; NC_000019.9 (17513755..17516384, complement). Location: 19p13.1
OMIM	600534
3D Structure	ModBase 3D Structure for Q10589
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for CD317/BST2 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for CD317/BST2 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for CD317/BST2 recombinant protein	MBS1576346 is a recombinant protein targeting CD317/BST2. Also known as Recombinant Human CD317/BST2 Protein, C-His. Host: Mammalian.
Other Notes	Small volumes of CD317/BST2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of CD317/BST2 recombinant protein
SDS PAGE for recombinant Human CD317/BST2 Protein



Bioactivity of CD317/BST2 recombinant protein
Detects Human CD317/BST2 Antibody (HM1.24) in indirect ELISAs.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD317/BST2. It may not necessarily be applicable to this product.

NCBI GI #	4757876
NCBI GeneID	684
NCBI Accession #	NP_004326.1
UniProt Primary Accession #	Q10589
UniProt Secondary Accession #	Q53G07; A8K4Y4
UniProt Related Accession #	Q10589
GenBank Nucleotide #	NM_004335.2
NCBI Official Full Name	bone marrow stromal antigen 2
NCBI Official Synonym Full Names	bone marrow stromal cell antigen 2
NCBI Official Symbol	BST2
NCBI Official Synonym Symbols	CD317; TETHERIN
UniProt Protein Name	Bone marrow stromal antigen 2
UniProt Synonym Protein Names	HM1.24 antigen; Tetherin
UniProt Gene Name	BST2
UniProt Synonym Gene Names	BST-2
UniProt Entry Name	BST2_HUMAN
NCBI Protein Information	bone marrow stromal antigen 2; BST-2; NPC-A-7; HM1.24 antigen
NCBI Summary for CD317/BST2	Bone marrow stromal cells are involved in the growth and development of B-cells. The specific function of the protein encoded by the bone marrow stromal cell antigen 2 is undetermined; however, this protein may play a role in pre-B-cell growth and in rheumatoid arthritis. [provided by RefSeq, Jul 2008]

UniProt Comments for CD317/BST2	BST2: IFN-induced antiviral host restriction factor which efficiently blocks the release of diverse mammalian enveloped viruses by directly tethering nascent virions to the membranes of infected cells. Acts as a direct physical tether, holding virions to the cell membrane and linking virions to each other. The tethered virions can be internalized by endocytosis and subsequently degraded or they can remain on the cell surface. In either case, their spread as cell-free virions is restricted. Its target viruses belong to diverse families, including retroviridae: human immunodeficiency virus type 1 (HIV-1), human immunodeficiency virus type 2 (HIV-2), simian immunodeficiency viruses (SIVs), equine infectious anemia virus (EIAV), feline immunodeficiency virus (FIV), prototype foamy virus (PFV), Mason- Pfizer monkey virus (MPMV), human T-cell leukemia virus type 1 (HTLV-1), Rous sarcoma virus (RSV) and murine leukemia virus (MLV), flaviviridae: hepatitis C virus (HCV), filoviridae: ebola virus (EBOV) and marburg virus (MARV), arenaviridae: lassa virus (LASV) and machupo virus (MACV), herpesviridae: kaposis sarcoma- associated herpesvirus (KSHV), rhabdoviridae: vesicular stomatitis virus (VSV), orthomyxoviridae: influenza A virus, and paramyxoviridae: nipah virus. Can inhibit cell surface proteolytic activity of MMP14 causing decreased activation of MMP15 which results in inhibition of cell growth and migration. Can stimulate signaling by LILRA4/ILT7 and consequently provide negative feedback to the production of IFN by plasmacytoid dendritic cells in response to viral infection. Plays a role in the organization of the subapical actin cytoskeleton in polarized epithelial cells. Belongs to the tetherin family. Protein type: Membrane protein, GPI anchor; Cell development/differentiation; Membrane protein, integral Chromosomal Location of Human Ortholog: 19p13.1 Cellular Component: Golgi apparatus; cell surface; membrane; integral to plasma membrane; cytoplasm; apical plasma membrane; late endosome; plasma membrane; lipid raft Molecular Function: metalloendopeptidase inhibitor activity; signal transducer activity; protein binding; protein homodimerization activity Biological Process: positive regulation of I-kappaB kinase/NF-kappaB cascade; B cell activation; response to virus; cytokine and chemokine mediated signaling pathway; multicellular organismal development; humoral immune response; cell proliferation; negative regulation of plasmacytoid dendritic cell cytokine production; cell-cell signaling; negative regulation of viral genome replication; regulation of actin cytoskeleton organization and biogenesis; innate immune response; negative regulation of cell growth; defense response to virus; negative regulation of cell migration
Research Articles on CD317/BST2	**1.** BST2-mediated Ig-like transcript (ILT)7 cross-linking may act as a homeostatic regulatory mechanism on immature circulating plasmacytoid dendritic cells (pDC), rather than negative feedback for mature pDCs that have downregulated ILT7.
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