CD317 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	CD317, Polyclonal Antibody
Full Product Name	Anti-Human CD317, rabbit IgG
Product Gene Name	anti-CD317 antibody
Product Synonym Names	Anti-Human CD317; i-Human CD317, rabbit IgG
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunoaffinity chromatography.
Concentration	2 mug/mul in PBS with less than 0.1% gelatin and 0.1% sodium azide (lot specific)
Specificity	Reacts with ectodomain of human CD317 (Tetherin) protein
Preparation and Storage	Store at 4 degree C. DO NOT FREEZE. Stable for 1 year from the date of shipment. Non-hazardous.
Molecular Weight	18,394 Da
OMIM	600534
Immunogen	in vivo expressed human of human CD317 (Tetherin) protein (amino acid 24-162) (Genebank No. BC033873)
Product Categories/Family for anti-CD317 antibody	Antibodies for Infectious Diseases (rabbit Polyclonal unless specified); Affinity Purified Rabbit Polyclonal Antibodies against HIV/SIV
Applications Tested/Suitable for anti-CD317 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CD317 antibody	Western Blot: 1:200-1:1000
Related Product Information for anti-CD317 antibody	MBS432089 is an antibody targeting CD317. Also known as Anti-Human CD317, rabbit IgG. **Description:** Anti-Human CD317 rabbit polyclonal antibody
Other Notes	Small volumes of anti-CD317 antibody 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.



Testing Data of anti-CD317 antibody
C: 293 cell extract control; 1: 293 cell expressing human CD317

ADDITIONAL DETAILS

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

NCBI GI #	21707504
NCBI GeneID	684
NCBI Accession #	AAH33873.1
UniProt Secondary Accession #	Q53G07; A8K4Y4
UniProt Related Accession #	Q10589
NCBI Official Full Name	Homo sapiens bone marrow stromal cell antigen 2, mRNA
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; CD_antigen: CD317
Protein Family	Bone marrow stromal antigen
UniProt Gene Name	BST2
UniProt Entry Name	BST2_HUMAN
NCBI Protein Information	bone marrow stromal antigen 2; BST-2; HM1.24 antigen; NPC-A-7
NCBI Summary for CD317	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: 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: Cell development/differentiation; Membrane protein, GPI anchor; Membrane protein, integral Chromosomal Location of Human Ortholog: 19p13.1 Cellular Component: Golgi apparatus; cell surface; membrane; integral to plasma membrane; apical plasma membrane; cytoplasm; late endosome; plasma membrane; lipid raft Molecular Function: metalloendopeptidase inhibitor activity; protein binding; signal transducer activity; protein homodimerization activity Biological Process: positive regulation of I-kappaB kinase/NF-kappaB cascade; B cell activation; response to virus; multicellular organismal development; cytokine and chemokine mediated signaling pathway; humoral immune response; cell proliferation; negative regulation of plasmacytoid dendritic cell cytokine production; negative regulation of viral genome replication; cell-cell signaling; 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	**1.** These findings inform the complexity of HSV-2-host interactions, providing basis for understanding the role of tetherin as a viral restriction factor and the mechanisms underlying viral countermeasures.
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