

Recombinant Human BST2 Protein, His-tagged

Cat. No. BST2-136H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human BST2 Protein with His tag was expressed in E. coli.

Species Human

Source E.coli

Description

BST2 (CD317, Tetherin, HM1.24) is a type II transmembrane glycoprotein functioning as a major mediator of the innate immune defense against the dissemination of enveloped viruses by tethering viron on cell surface. BST2 has a N-terminal cytoplasmic tail for endocytosis and cytoskeletal signaling, a transmembrane domain, an extracellular domain containing putative disulfide bonds and coiled coil region for forming homodimer, and a C-terminal GPI domain for membran anchoring. Both the transmembrane domain and the GPI domain can insert either to the cell membrane or the viral envelope membrane and hold them together to prevent viral release. Virus counteracts BST2 by encoding viral protein as antagonist. These viral proteins interact directly with BST2 to either enhance BST2 endocytosis/lysosomal degradation (such as Vpu) or prevent BST2 secretion pathway by sequestering the protein in endosome. BST2 is overexpressed in gastrointestinal cancers, breast cancer, lung cancer and multiple myeloma. BST2 monoclonal antibody targeting myeloma or lung cancer cells induces cellular cytotoxicity and cell death (ADCC, antibody-dependent cell-mediated cytotoxicity). Thus BST2 serves as a potential target for tumor immunotherapy.

Molecular Mass ~16 kDa

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AA Sequence	MNSEACRDGLRAVMECRNVTHLLQQELTEAQKGFQDVEAQAATCNHTVMALMASL DAEKAQGQKKVEELEGEITTLNHNKLQDASAEVERLRRENQVLSVRIADKKYYPSSQD SS
Purity	Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).
Notes	For research use only, not for use in diagnostic procedure.
Storage	Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.
Storage Buffer	PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name	BST2 bone marrow stromal cell antigen 2 [Homo sapiens (human)]
Official Symbol	BST2
Synonyms	BST2; bone marrow stromal cell antigen 2; bone marrow stromal antigen 2; CD317; tetherin; BST-2; NPC-A-7; HM1.24 antigen; TETHERIN;
Gene ID	684
mRNA Refseq	NM_004335
Protein Refseq	NP_004326
MIM	600534

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UniProt ID

Q10589

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