abcam

ab272169

Anti-BST2/Tetherin antibody [EPR23597-266]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR23597-266
Purification technique	Affinity purification Protein A
Concentration	0.465 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Mouse
Dilution info	1/30
Notes	-

Not recommended

Species	Human, Rat
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Not recommended

Species	Human, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Not recommended

Species	Human, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Mouse, Human, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1/100
Notes	-

Not recommended

Species	Human, Rat
Dilution info	-
Notes	-

Target data

See full target information Bst2

Function 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), mouse mammary tumor virus (MMTV) and murine leukemia virus (MLV), filoviridae: ebola virus (EBOV), arenaviridae: lassa virus (LASV), and rhabdoviridae: vesicular stomatitis virus (VSV). 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.

Storage

Shipped at conditions Conditional Ambient

Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

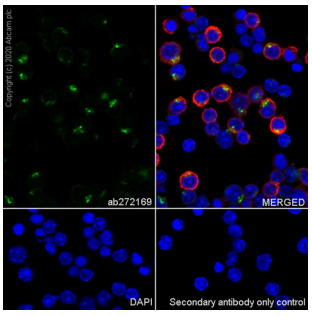
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

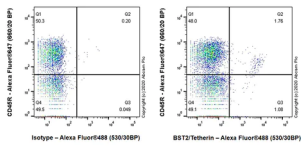
4 product images



Immunocytochemistry/ Immunofluorescence - Anti-BST2/Tetherin antibody [EPR23597-266] (ab272169)

BST2/Tetherin Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-BST2/Tetherin antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Mouse splenocyte cells labelling BST2/Tetherin with ab272169 at 1/100 dilution, followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplamic staining in mouse splenocytes. ab195889 Anti-alpha Tubulin antibody (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).
Secondary antibody only control: Secondary antibody is ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1000 dilution.

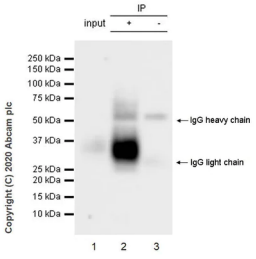


Flow Cytometry - Anti-BST2/Tetherin antibody [EPR23597-266] (ab272169)

BST2/Tetherin Flow Cytometry staining using rabbit Anti-BST2/Tetherin antibody

Flow cytometric analysis of Mouse splenocyte cells labelling BST2/Tetherin with ab272169 at 1/500 dilution (Right) compared with a Rabbit monoclonal IgG (ab172730) isotype control (Left). A Goat anti rabbit IgG (AlexaFluor 488, ab150077) at 1/2000 dilution was used as the secondary antibody. Cells were stained with rabbit IgG (Left) or ab272169 (Right). Then stained with anti-CD45R conjugated to Alexa Fluor® 647.

Gated on viable cells.



Immunoprecipitation - Anti-BST2/Tetherin antibody [EPR23597-266] (ab272169)

BST2/Tetherin was immunoprecipitated from 0.35 mg Mouse spleen tissue lysate with ab272169 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab272169 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP)(ab131366) was used at 1/5000 dilution.
Lane 1: Mouse spleen tissue lysate 10ug

Lane 2: ab272169 IP in Mouse spleen tissue lysate

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab272169 in mouse spleen tissue lysate

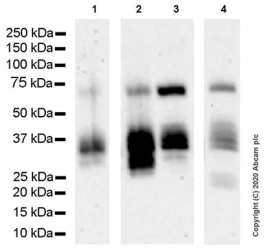
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 15 seconds

BST2 is type II transmembrane glycoprotein with a molecular mass of 28-40 KD, which is consistent to the literature(PMID: 22520941; PMID: 19737401).
All lanes:
Immunoprecipitation - Anti-BST2/Tetherin antibody [EPR23597-266] (ab272169)

Predicted band size: 20 kDa

Observed band size: 28-40 kDa



Western blot - Anti-BST2/Tetherin antibody [EPR23597-266] (ab272169)

Blocking and dilution buffer: 5% NFDM/TBST.
Exposure time: 3 minutes.

BST2 is type II transmembrane glycoprotein with a molecular mass of 28-40 KD, and forms cysteine-linked dimers at 64 KD which is consistent to the literature(PMID: 22520941; PMID: 19737401).

All lanes:
Western blot - Anti-BST2/Tetherin antibody [EPR23597-266] (ab272169) at 1/1000 dilution

Lane 1:
Mouse spleen tissue lysate at 20 µg

Lane 2:
Mouse thymus tissue lysate at 20 µg

Lane 3:
Mouse lymph node tissue lysate at 20 µg

Lane 4:
P388D1 (mouse lymphoma monocyte; macrophage), whole cell lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1/100000 dilution

Predicted band size: 20 kDa

Observed band size: 28-40 kDa, 64 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.