abcam

Product datasheet

Anti-BST2/Tetherin antibody [EPR23597-202] - BSA and Azide free ab272175

重组 RabMAb

8 图像

概述

产品名称	Anti-BST2/Tetherin抗体[EPR23597-202] - BSA and Azide free
描述	兔单克隆抗体[EPR23597-202] to BST2/Tetherin - BSA and Azide free
宿主	Rabbit
经测试应用	**适用于:** IHC-P, ICC/IF, IP, Flow Cyt **不适用于:** WB
种属反应性	**与反应:** Mouse
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	IHC-P: Mouse spleen tissue. ICC/IF: EL.4 and mouse splenocyte cells. Flow Cyt: Mouse splenocytesl. IP: Mouse spleen tissue lysate; EL4 whole cell lysate.
常规说明	ab272175 is the carrier-free version of **ab246508**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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 production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.2 Constituent: PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR23597-202
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab272175于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.

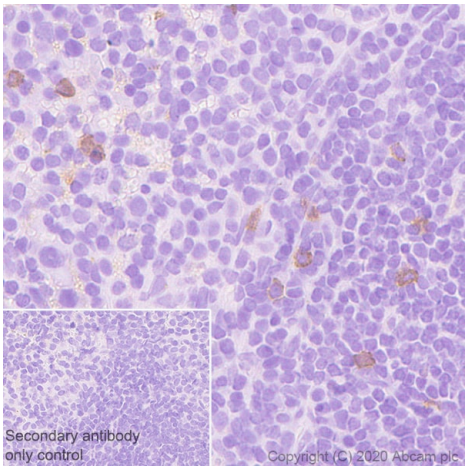
应用说明 Is unsuitable for WB.

靶标

功能	May be involved in the sorting of secreted proteins (By similarity). May be involved in pre-B-cell growth. Antiretroviral defense protein, that blocks release of retrovirus from the cell surface. Depleted unpon 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. May play a role in B-cell activation in rheumatoid arthritis.
组织特异性	Predominantly expressed in liver, lung, heart and placenta. Lower levels in pancreas, kidney, skeletal muscle and brain. Overexpressed in multiple myeloma cells. Highly expressed during B-cell development, from pro-B precursors to plasma cells. Highly expressed on T-cells, monocytes, NK cells and dendritic cells (at protein level).
序列相似性	Belongs to the tetherin family.
结构域	The extracellular coiled coil domain is important for virus retention at the cell surface and

	prevention of virus spreading.
翻译后修饰	Monoubiquitinated by KSHV E3 ubiquitin-protein ligase K5, leading to its targeting to late endosomes and degradation.
细胞定位	Golgi apparatus > trans-Golgi network. Cell membrane. Cell membrane. Late endosome. Targeted to late endosomes upon KSHV infection and subsequent ubiquitination. Targeted to the trans-Golgi network by viral VPU protein.

图片



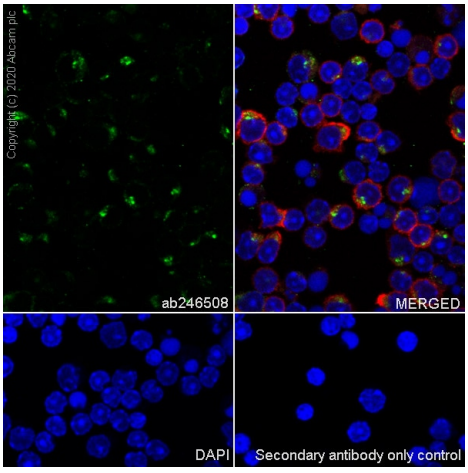
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BST2/Tetherin antibody [EPR23597-202] - BSA and Azide free (ab272175)

Immunohistochemical analysis of paraffin-embedded Mouse spleen tissue labeling BST2/Tetherin with **ab246508** at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on mouse spleen (PMID: 19903902).The section was incubated with **ab246508** for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab246508**).

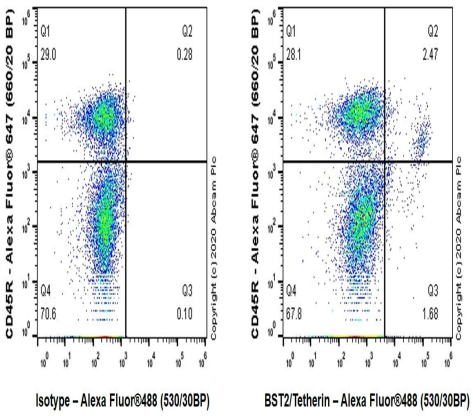


Immunocytochemistry/ Immunofluorescence - Anti-BST2/Tetherin antibody [EPR23597-202] - BSA and Azide free (ab272175)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Mouse splenocyte cells labelling BST2/Tetherin with **ab246508** 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 splenocyte **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 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab246508**).



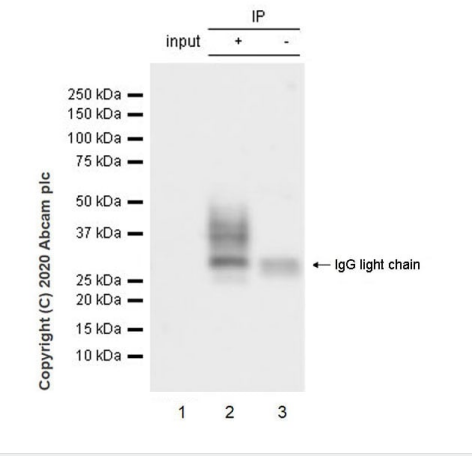
Flow Cytometry - Anti-BST2/Tetherin antibody [EPR23597-202] - BSA and Azide free (ab272175)

Flow cytometric analysis of Mouse splenocyte cells labelling BST2/Tetherin with **ab246508** at 1/500 dilution (Right) compared with a Rabbit monoclonal IgG (**ab172730**) isotype control (Left).A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

Cells were stained with rabbit IgG (Left) or **ab246508** (Right). Then stained with anti-CD45R conjugated to Alexa Fluor® 647.

Gated on viable cells.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab246508**).



Immunoprecipitation - Anti-BST2/Tetherin antibody [EPR23597-202] - BSA and Azide free (ab272175)

BST2/Tetherin was immunoprecipitated from 0.35 mg EL4 (mouse lymphoma T lymphocyte), whole cell lysate with **ab246508** at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using **ab246508** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP)(**ab131366**) was used at 1/5000 dilution.

Lane 1: EL4 (mouse lymphoma T lymphocyte), whole cell lysate 10 ug

Lane 2: **ab246508** IP in EL4 whole cell lysate

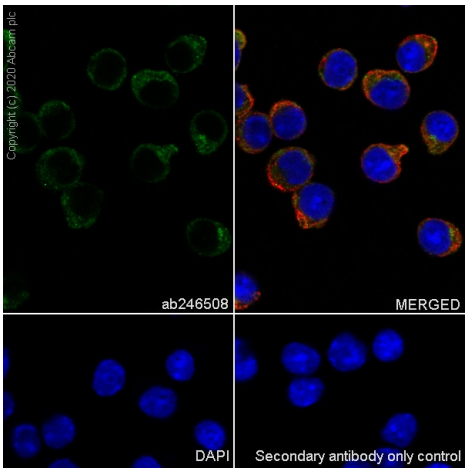
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab246508** in EL4 whole cell lysate

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab246508**).

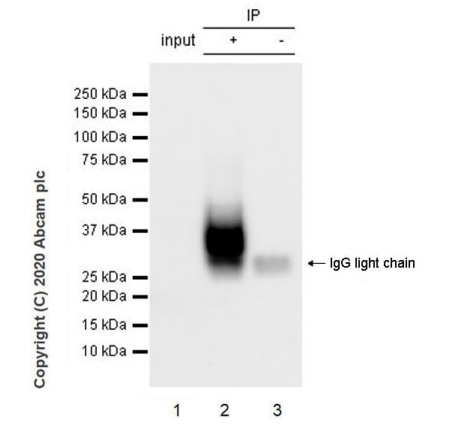


Immunocytochemistry/ Immunofluorescence - Anti-BST2/Tetherin antibody [EPR23597-202] - BSA and Azide free (ab272175)

Immunofluorescent analysis of 100% methanol-fixed EL.4 cells labelling BST2/Tetherin with **ab246508** 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 cytoplasmic staining in EL.4 cell line. 100% methanol fixation is recommended. **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 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab246508**).



Immunoprecipitation - Anti-BST2/Tetherin antibody [EPR23597-202] - BSA and Azide free (ab272175)

BST2/Tetherin was immunoprecipitated from 0.35 mg Mouse spleen tissue lysate with **ab246508** at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using **ab246508** 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: **ab246508** IP in Mouse spleentissue lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab246508** 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).

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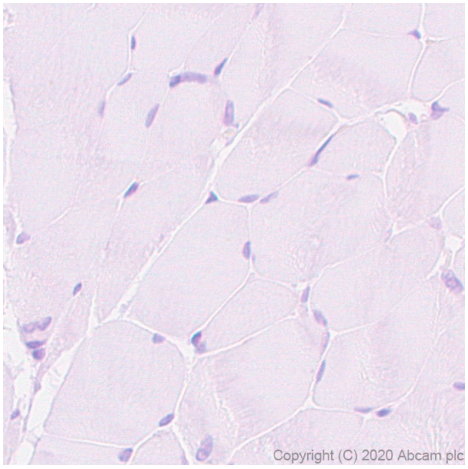


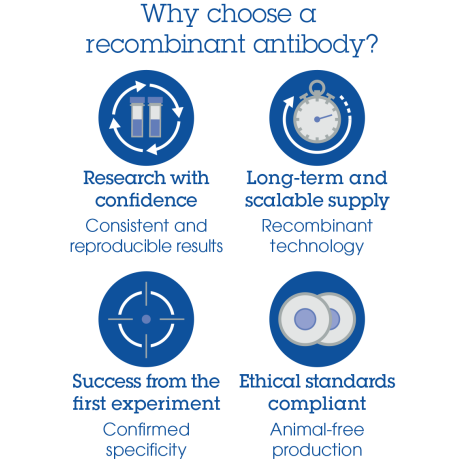
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BST2/Tetherin antibody [EPR23597-202] - BSA and Azide free (ab272175)

Immunohistochemical analysis of paraffin-embedded Mouse skeletal muscle tissue labeling BST2/Tetherin with **ab246508** at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). **Negative control:** No staining on mouse skeletal muscle (PMID: 19903902). The section was incubated with **ab246508** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab246508**).



Anti-BST2/Tetherin antibody [EPR23597-202] - BSA and Azide free (ab272175)

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