

Anti-BST2/Tetherin antibody [EPR20202-150] ab243230

敲除验证
重组
RabMAb

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概述

产品名称	Anti-BST2/Tetherin抗体[EPR20202-150]
描述	兔单克隆抗体[EPR20202-150] to BST2/Tetherin
宿主	Rabbit
经测试应用	适用于: ICC/IF, IP, Flow Cyt, WB 不适用于: IHC-P
种属反应性	与反应: Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: A549 cell lysate; HeLa whole cell lysate in the loading buffer containing DTT; K562 whole cell lysate in the loading buffer containing DTT. U937 whole cell lysate. ICC/IF: HeLa and U-937 cells. Flow Cyt: HeLa cells. IP: HeLa whole cell lysate.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR20202-150

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab243230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
ICC/IF		1/100.
IP		1/40.
Flow Cyt		1/700.
WB		1/1000. Detects a band of approximately 35, 70 kDa (predicted molecular weight: 20 kDa).

应用说明

Is unsuitable for IHC-P.

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 upon 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.

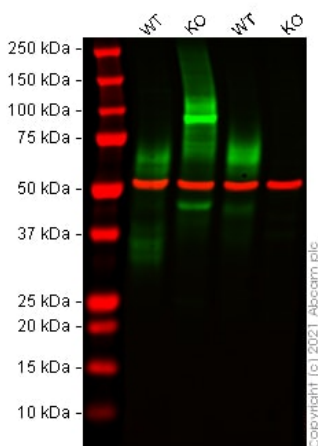
翻译后修饰

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



Western blot - Anti-BST2/Tetherin antibody
[EPR20202-150] (ab243230)

All lanes : Anti-BST2/Tetherin antibody [EPR20202-150]
(ab243230) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : Bst2 knockout HeLa cell lysate

Lane 3 : Wild-type A431 cell lysate

Lane 4 : BST2 knockout A431 cell lysate

Lysates/proteins at 20 µg per lane.

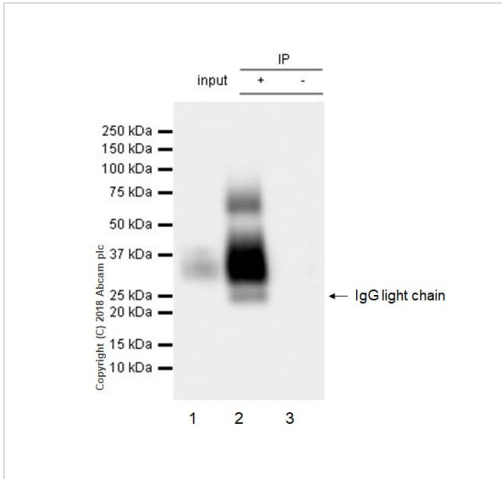
Performed under reducing conditions.

Predicted band size: 20 kDa

Observed band size: 30 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab243230 observed at 30 kDa. Red - loading control **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) observed at 55 kDa.

ab243230 was shown to react with BST2/Tetherin in wild-type HeLa cells in Western blot with loss of signal observed in BST2 knockout samples. Wild-type HeLa and BST2 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with ab243230 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Immunoprecipitation - Anti-BST2/Tetherin antibody
[EPR20202-150] (ab243230)

BST2/Tetherin was immunoprecipitated from 0.35 mg HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate with ab243230 at 1/40 dilution. Western blot was performed on the immunoprecipitate using ab243230 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used for detection at 1/5000 dilution.

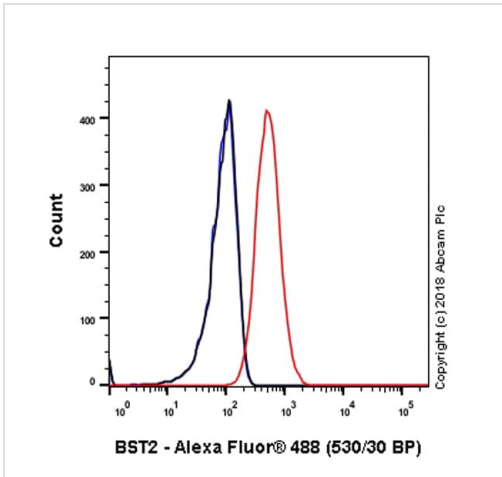
Lane 1: HeLa whole cell lysate 10 µg (input)

Lane 2: ab243230 IP in HeLa whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab243230 in HeLa whole cell lysate.

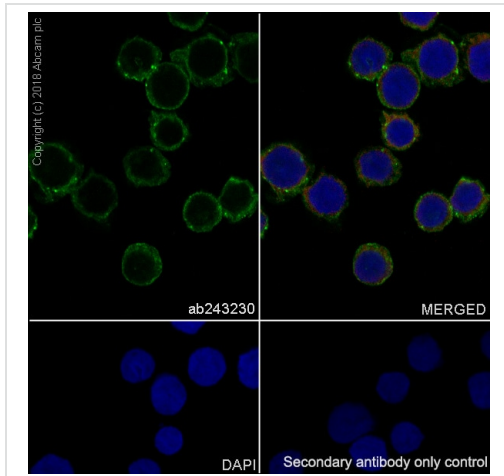
Blocking and dilution buffer and concentration: 5% NFD/MTBST

Exposure time: 3 seconds.



Flow Cytometry - Anti-BST2/Tetherin antibody
[EPR20202-150] (ab243230)

Flow cytometric analysis of HeLa (human epithelial cell line from cervix adenocarcinoma) cell line labeling BST2/Tetherin with ab243230 at 1/700 dilution (Red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control ([ab172730](#)) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) at 1/2000 dilution was used as the secondary antibody. Gated on viable cells.

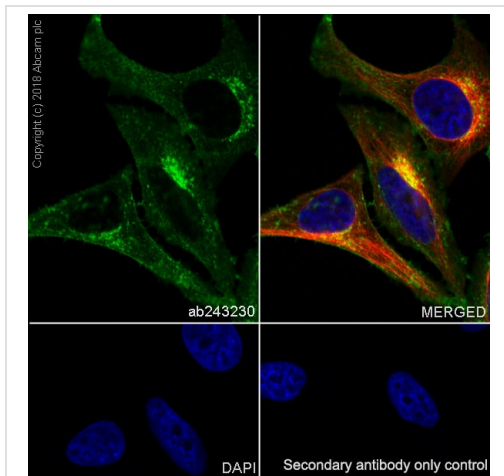


Immunocytochemistry/ Immunofluorescence - Anti-BST2/Tetherin antibody [EPR20202-150] (ab243230)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U-937 (human histiocytic lymphoma cell line) cells labeling BST2/Tetherin with ab243230 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody (Green). Confocal image showing cytoplasmic staining in U-937 cells (PMID: 20529266).

The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) (red) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.

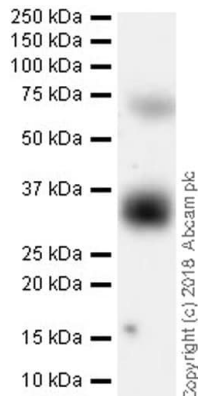


Immunocytochemistry/ Immunofluorescence - Anti-BST2/Tetherin antibody [EPR20202-150] (ab243230)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling BST2/Tetherin with ab243230 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody (Green). Confocal image showing cytoplasmic staining in HeLa cells (PMID: 20529266).

The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) (red) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.



Western blot - Anti-BST2/Tetherin antibody
[EPR20202-150] (ab243230)

Anti-BST2/Tetherin antibody [EPR20202-150] (ab243230) at 1/1000 dilution + U-937 (human histiocytic lymphoma cell line) whole cell lysate at 20 µg

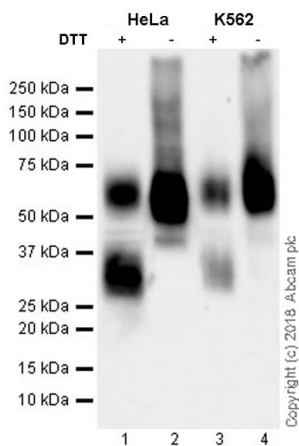
Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 20 kDa

Exposure time: 125 seconds

Blocking/Diluting buffer and concentration: 5% NFDm/TBST



Western blot - Anti-BST2/Tetherin antibody
[EPR20202-150] (ab243230)

All lanes : Anti-BST2/Tetherin antibody [EPR20202-150] (ab243230) at 1/1000 dilution

Lane 1 : HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate in the loading buffer containing DTT

Lane 2 : HeLa whole cell lysate in the loading buffer without DTT

Lane 3 : K562 (human chronic myelogenous leukemia lymphoblast), whole cell lysate in the loading buffer containing

Lane 4 : K562 whole cell lysate in the loading buffer without DTT

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 20 kDa

Observed band size: 35,70 kDa

Exposure time: 48 seconds

Blocking/Diluting buffer and concentration: 5% NFDm/TBST

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 19196977; PMID: 19737401).

BST2/Tetherin is a glycosylated protein, its calculated MW is 20 kDa, and the observed MW is 35 kDa, which is consistent with the literature.

Both 35 and 70 kDa bands were detected under the reducing condition, whereas under the non-reducing condition, only the 70 kDa band was detected.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-BST2/Tetherin antibody [EPR20202-150]
(ab243230)

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