

### Anti-BST2/Tetherin antibody [EPR23597-266] ab272169

リコンビナント RabMAb<sup>®</sup>

画像数 5

#### 製品の概要

製品名	Anti-BST2/Tetherin antibody [EPR23597-266]
製品の詳細	Rabbit monoclonal [EPR23597-266] to BST2/Tetherin
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB, ICC/IF, Flow Cyt, IP <b>適用なし:</b> IHC-P
種交差性	交差種: Mouse
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Mouse spleen, thymus and lymph node tissue lysates; P388D1 whole cell lysate. ICC/IF: Mouse splenocytes. Flow Cyt: Mouse splenocytes. IP: Mouse spleen tissue lysate.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

#### 製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR23597-266

## アプリケーション

**The Abpromise guarantee** **Abpromise保証は、次のテスト済みアプリケーションにおけるab272169の使用に適用されず**  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/1000. Predicted molecular weight: 20 kDa.
ICC/IF		1/100.
Flow Cyt		1/500.
IP		1/30.

## 追加情報

Is unsuitable for IHC-P.

## ターゲット情報

## 機能

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.

## 組織特異性

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).

## 配列類似性

Belongs to the tetherin family.

## ドメイン

The extracellular coiled coil domain is important for virus retention at the cell surface and prevention of virus spreading.

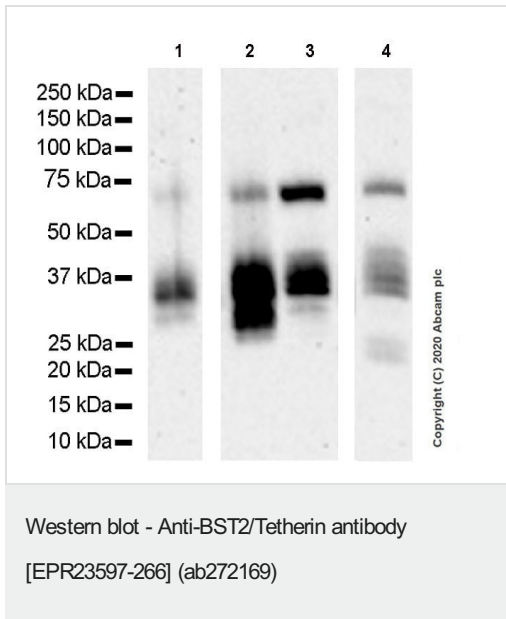
## 翻訳後修飾

Monoubiquitinated by KSHV E3 ubiquitin-protein ligase K5, leading to its targeting to late endosomes and degradation.

## 細胞内局在

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.

## 画像



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

**Lane 1 :** Mouse spleen tissue lysate

**Lane 2 :** Mouse thymus tissue lysate

**Lane 3 :** Mouse lymph node tissue lysate

**Lane 4 :** P388D1 (mouse lymphoma monocyte; macrophage), whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

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

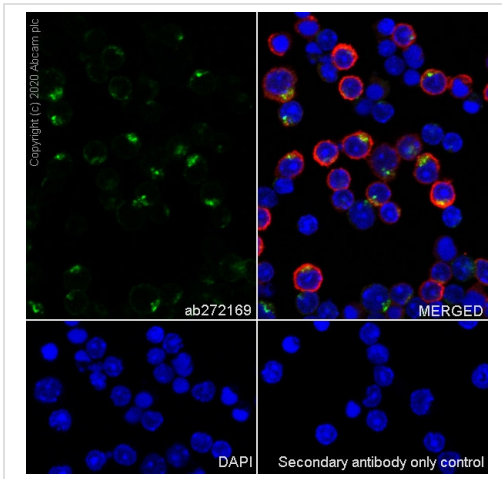
**Predicted band size:** 20 kDa

**Observed band size:** 28-40,64 kDa

Blocking and dilution buffer: 5% NFDm/TBST.

Exposure time: 3 minutes.

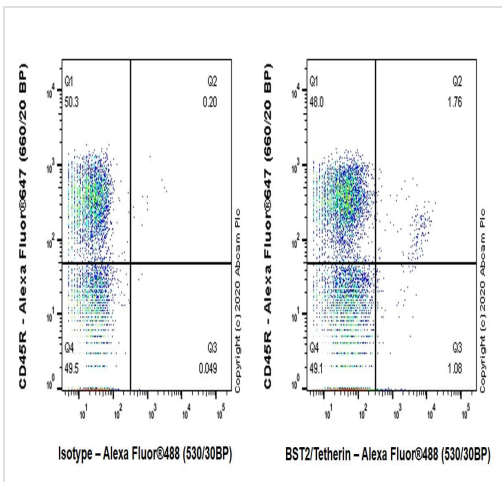
BST2 is type II transmembrane glycoprotein with a molecular mass of 28-40 KD, and forms cysteine-linked dimers at 64 KD which is consistent to the literature(PMID: 22520941; PMID: 19737401).



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

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 cytoplasmic 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.

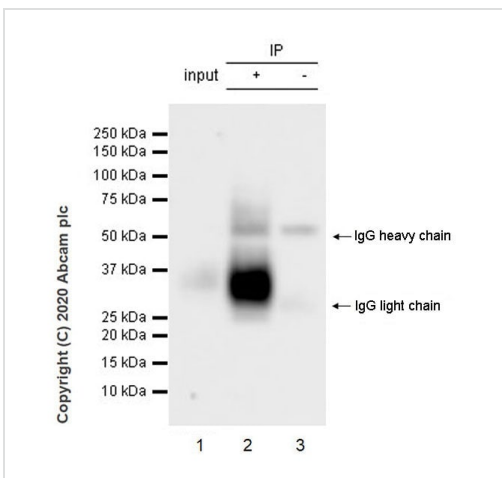


Flow Cytometry - Anti-BST2/Tetherin antibody [EPR23597-266] (ab272169)

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% NFDN/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;

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 [EPR23597-266]  
(ab272169)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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