

Product datasheet

Anti-BAFF antibody [EPR19704] ab203791

Recombinant RabMAb

5 Images

Overview

| | |
|----------------------------|---|
| Product name | Anti-BAFF antibody [EPR19704] |
| Description | Rabbit monoclonal [EPR19704] to BAFF |
| Host species | Rabbit |
| Tested applications | Suitable for: ICC/IF, IP, WB |
| Species reactivity | Reacts with: Human |
| Immunogen | Recombinant fragment. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | WB: HEK-293 transfected with a GFP-Myc tagged BAFF vector whole cell lysate; U937 whole cell lysate. ICC/IF: 293T cells transfected with a GFP-tagged BAFF expression construct. IP: U937 whole cell lysate. |
| General notes | <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> |

Properties

| | |
|-----------------------------|--|
| Form | Liquid |
| Storage instructions | 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. |
| Storage buffer | <p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p> |
| Purity | Protein A purified |
| Clonality | Monoclonal |
| Clone number | EPR19704 |

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab203791 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|--|
| ICC/IF | | 1/100. |
| IP | | 1/30. |
| WB | | 1/1000. Detects a band of approximately 31, 29, 17 kDa (predicted molecular weight: 31 kDa). |

Target

Function

Cytokine that binds to TNFRSF13B/TACI and TNFRSF17/BCMA. TNFSF13/APRIL binds to the same 2 receptors. Together, they form a 2 ligands -2 receptors pathway involved in the stimulation of B-and T-cell function and the regulation of humoral immunity. A third B-cell specific BAFF-receptor (BAFFR/BR3) promotes the survival of mature B-cells and the B-cell response.

Tissue specificity

Abundantly expressed in peripheral blood Leukocytes and is specifically expressed in monocytes and macrophages. Also found in the spleen, lymph node, bone marrow, T-cells and dendritic cells. A lower expression seen in placenta, heart, lung, fetal liver, thymus, and pancreas.

Sequence similarities

Belongs to the tumor necrosis factor family.

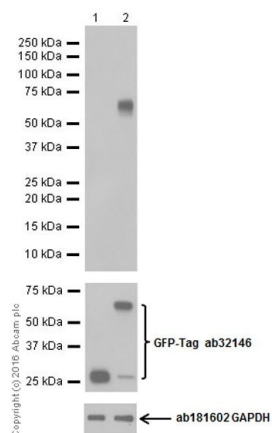
Post-translational modifications

The soluble form derives from the membrane form by proteolytic processing. N-glycosylated.

Cellular localization

Secreted and Cell membrane.

Images



Western blot - Anti-BAFF antibody [EPR19704]
(ab203791)

All lanes : Anti-BAFF antibody [EPR19704] (ab203791) at 1/5000 dilution

Lane 1 : Empty vector with GFP-Myc tag (vector control) transfected HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate

Lane 2 : HEK-293 (Human epithelial cell line from embryonic kidney) transfected with a GFP-Myc tagged BAFF vector whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

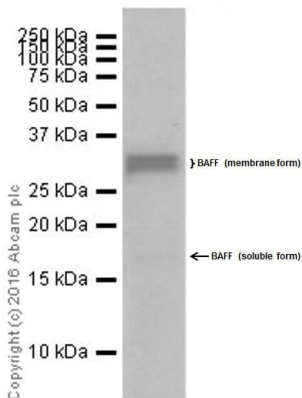
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 31 kDa

Observed band size: 57 kDa

Exposure time: 1 second

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-BAFF antibody [EPR19704]
(ab203791)

Anti-BAFF antibody [EPR19704] (ab203791) at 1/1000 dilution + U937 (Human histiocytic lymphoma cell line) whole cell lysate at 10 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

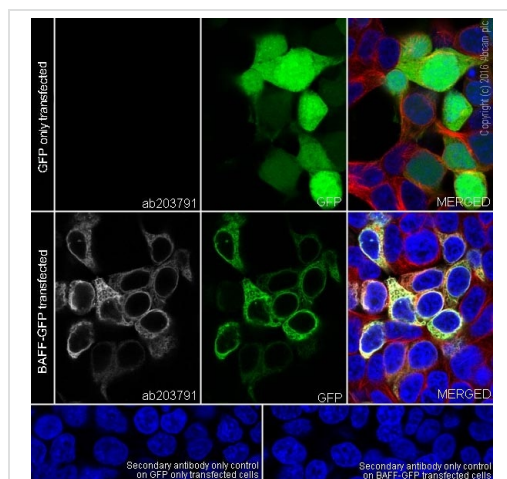
Predicted band size: 31 kDa

Observed band size: 17,29,31 kDa

Exposure time: 30 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.

Two isoforms have been described in literature (PMID: 12867412).



Immunocytochemistry/ Immunofluorescence - Anti-BAFF antibody [EPR19704] (ab203791)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized 293T (Human epithelial cell line from embryonic kidney) cells labeling BAFF with ab203791 at 1/100 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 647) (**ab150079**) secondary antibody at 1/1000 dilution.

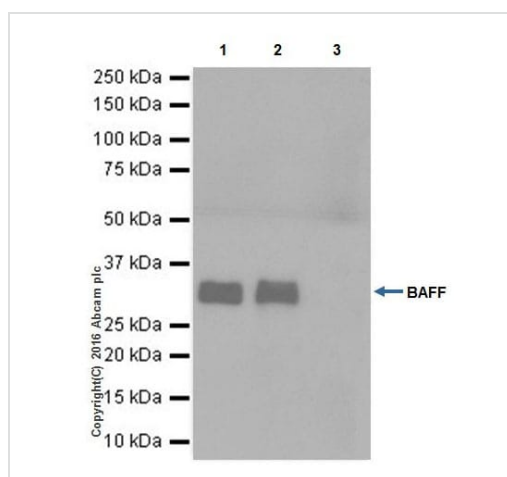
Confocal image showing positive staining on 293T cells transfected with a GFP-tagged BAFF expression construct.

The nuclear counter stain is DAPI (blue).

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

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab150079** at 1/1000 dilution.

ICC/IF was also performed on a few cell lines including U937, no signal was detected.



Immunoprecipitation - Anti-BAFF antibody [EPR19704] (ab203791)

BAFF was immunoprecipitated from 0.35 mg of U937 (Human histiocytic lymphoma cell line) whole cell lysate with ab203791 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab203791 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1000 dilution.

Lane 1: U937 whole cell lysate, 10µg (Input).

Lane 2: ab203791 IP in U937 whole cell lysate.

Lane 3: Rabbit IgG, monoclonal [EPR25A]-Isotype Control (**ab172730**) instead of ab203791 in U937 whole cell lysate.

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

Exposure time: 30 seconds.

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-BAFF antibody [EPR19704] (ab203791)

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

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