abcam

Product datasheet

Anti-BTF3 antibody [EPR16495] ab203517

Recombinant RabMAb

★★★★★ 1 Abreviews 3 References 15 Images

Overview

Product name	Anti-BTF3 antibody [EPR16495]
Description	Rabbit monoclonal [EPR16495] to BTF3
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, ICC/IF, IP, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: MCF7, SK-BR-3, HeLa, Jurkat, C6, RAW 264.7, PC-12 and NIH/3T3 cell lysates; Human lymph node and fetal kidney lysates; Mouse heart and spleen lysates. IHC-P: Human cervix carcinoma, Human spleen, mouse liver and rat testis tissues. ICC/IF: HeLa and SK-BR-3 cells. Flow Cyt (intra): HeLa cells. IP: NIH/3T3 whole cell lysate.
General notes	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**.

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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR16495

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab203517 in the following tested applications.

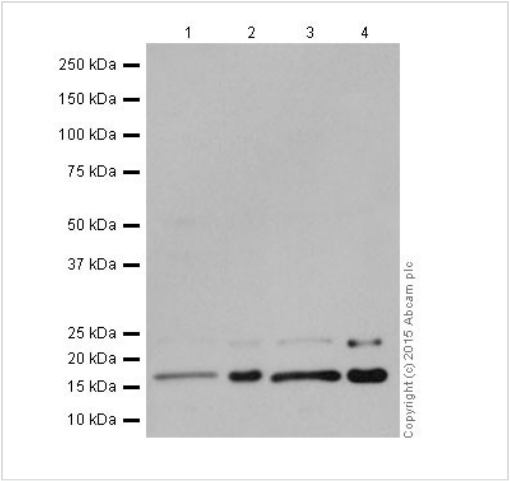
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/250.
WB	★★★★★ (1)	1/1000. Detects a band of approximately 22, 18 kDa (predicted molecular weight: 22 kDa).
ICC/IF		1/250.
IP		1/70.
IHC-P		1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Function	General transcription factor. BTF3 can form a stable complex with RNA polymerase II. Required for the initiation of transcription.
Sequence similarities	Belongs to the NAC-beta family. Contains 1 NAC-A/B (NAC-alpha/beta) domain.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Nucleus.

Images



Western blot - Anti-BTF3 antibody [EPR16495] (ab203517)

All lanes : Anti-BTF3 antibody [EPR16495] (ab203517) at 1/2000 dilution

Lane 1 : MCF7 (Human breast adenocarcinoma cell line) cell lysate
Lane 2 : SK-BR-3 (Human mammary gland adenocarcinoma cell line) cell lysate
Lane 3 : HeLa (Human epithelial cells from cervix adenocarcinoma) cell lysate
Lane 4 : Jurkat (Human T cell leukemia cells from peripheral blood) cell lysate

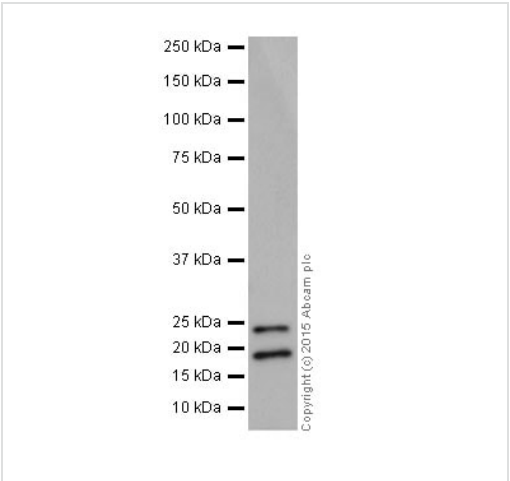
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 22 kDa
Observed band size: 18,22 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-BTF3 antibody [EPR16495] (ab203517)

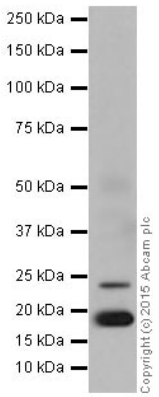
Anti-BTF3 antibody [EPR16495] (ab203517) at 1/1000 dilution + Human fetal kidney lysate at 10 µg

Secondary
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/10000 dilution

Predicted band size: 22 kDa
Observed band size: 18,22 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-BTF3 antibody [EPR16495] (ab203517)

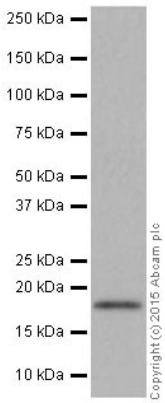
Anti-BTF3 antibody [EPR16495] (ab203517) at 1/1000 dilution + C6 (Rat glial tumor cells) cell lysate at 10 µg

Secondary
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 22 kDa
Observed band size: 18,22 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-BTF3 antibody [EPR16495] (ab203517)

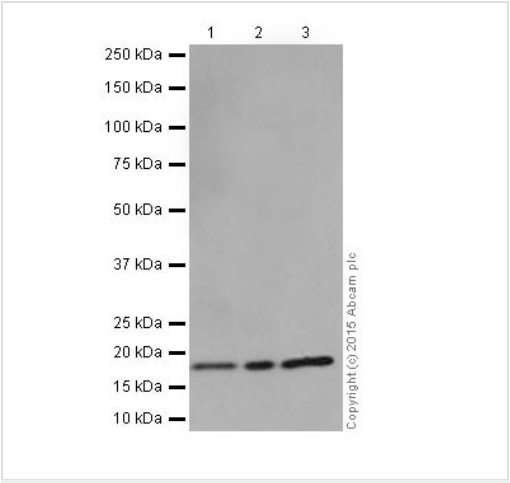
Anti-BTF3 antibody [EPR16495] (ab203517) at 1/1000 dilution + Human lymph node lysate at 10 µg

Secondary
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 22 kDa
Observed band size: 18 kDa

Exposure time: 30 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-BTF3 antibody [EPR16495] (ab203517)

All lanes : Anti-BTF3 antibody [EPR16495] (ab203517) at 1/1000 dilution

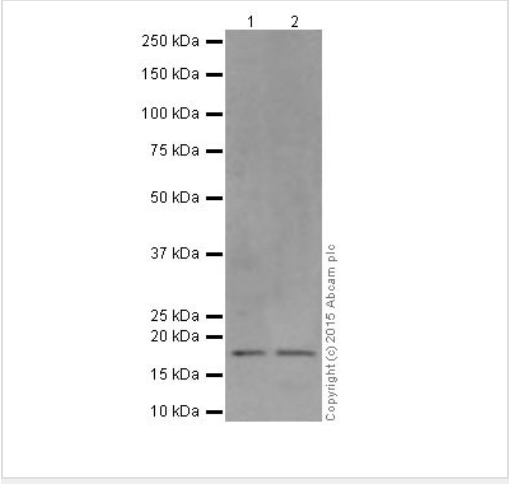
Lane 1 : RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) cell lysate
Lane 2 : PC-12 (Rat adrenal gland pheochromocytoma) cell lysate
Lane 3 : NIH/3T3 (Mouse embyro fibroblast cells) cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 22 kDa
Observed band size: 18 kDa

Exposure time: 1 minute



Western blot - Anti-BTF3 antibody [EPR16495] (ab203517)

All lanes : Anti-BTF3 antibody [EPR16495] (ab203517) at 1/1000 dilution

Lane 1 : Mouse heart lysate
Lane 2 : Mouse spleen lysate

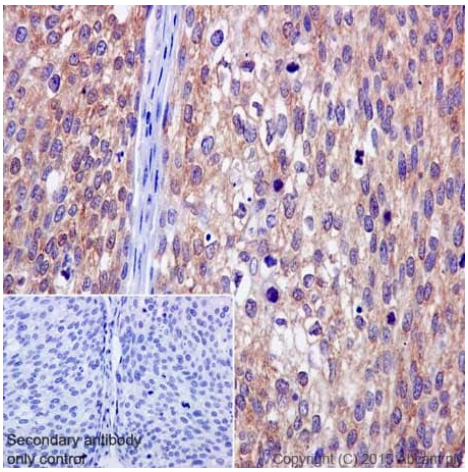
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 22 kDa
Observed band size: 18 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BTF3 antibody [EPR16495] (ab203517)

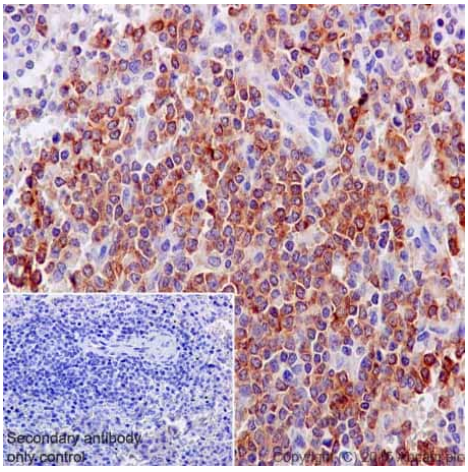
Immunohistochemical analysis of paraffin-embedded Human cervix carcinoma labeling BTF3 with ab203517 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Cytoplasmic staining on Human cervix carcinoma tissue is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BTF3 antibody [EPR16495] (ab203517)

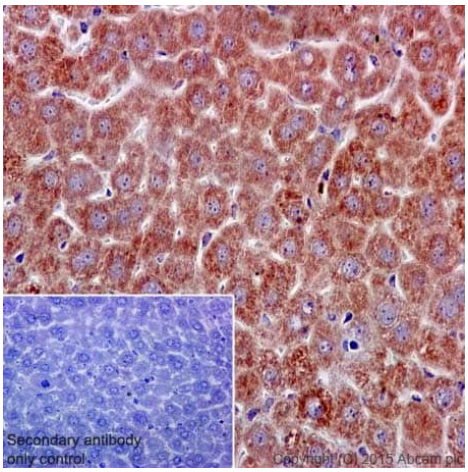
Immunohistochemical analysis of paraffin-embedded Human spleen labeling BTF3 with ab203517 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Cytoplasmic staining on Human spleen tissue is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BTF3 antibody [EPR16495] (ab203517)

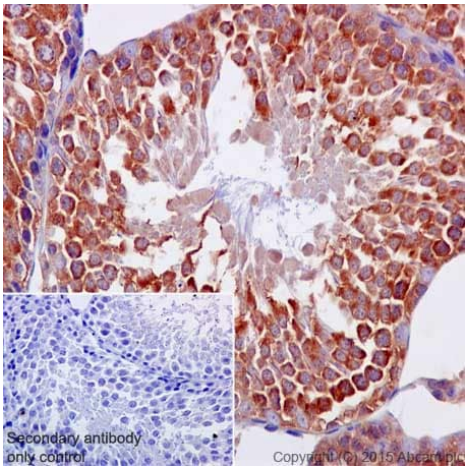
Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling BTF3 with ab203517 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Cytoplasmic staining on mouse liver tissue is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BTF3 antibody [EPR16495] (ab203517)

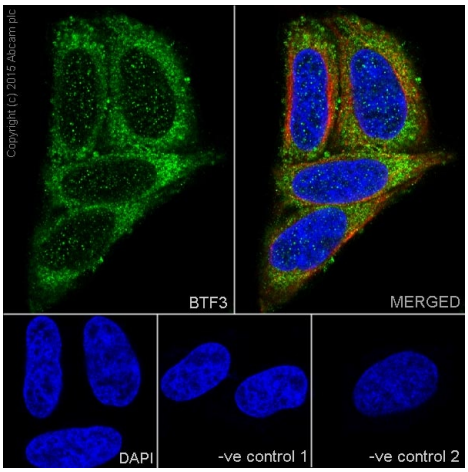
Immunohistochemical analysis of paraffin-embedded Rat testis tissue labeling BTF3 with ab203517 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Cytoplasmic staining on rat testis tissue is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-BTF3 antibody [EPR16495] (ab203517)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling BTF3 with ab203517 at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

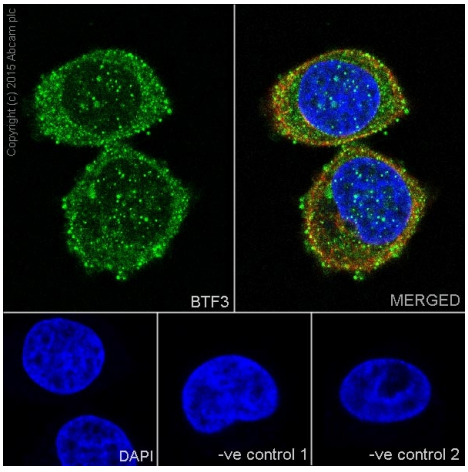
Confocal imaging showing cytoplasmic and weakly nuclear staining on HeLa cell line.

The nuclear counterstain is DAPI (blue).

Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1: ab203517 at 1/250 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.
-ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-BTF3 antibody [EPR16495] (ab203517)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized SK-BR-3 (Human mammary gland adenocarcinoma cell line) cells labeling BTF3 with ab203517 at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

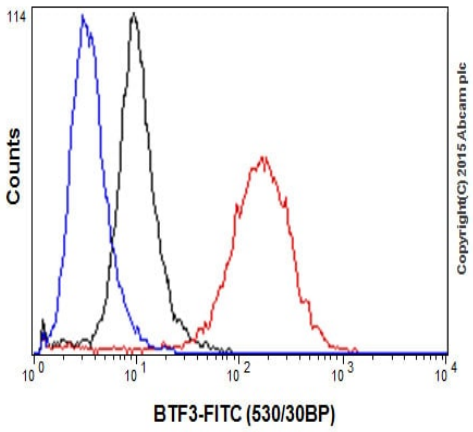
Confocal imaging showing cytoplasmic and weakly nuclear staining on SK-BR-3 cell line.

The nuclear counterstain is DAPI (blue).

Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).

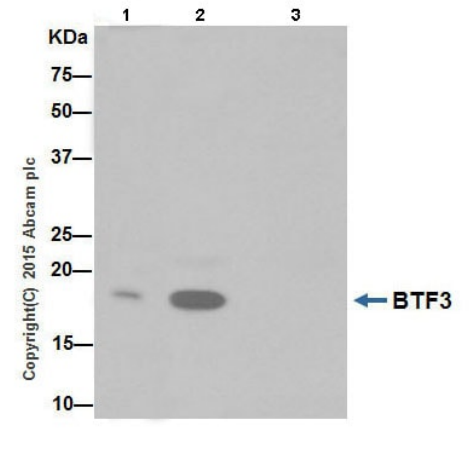
The negative controls are as follows:-

-ve control 1: ab203517 at 1/250 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.
-ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-BTF3 antibody [EPR16495] (ab203517)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling BTF3 with ab203517 at 1/250 dilution (red) compared with a rabbit monoclonal IgG isotype control (**ab172730**; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (FITC) at 1/150 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-BTF3 antibody [EPR16495] (ab203517)

BTF3 was immunoprecipitated from 1mg of NIH/3T3 (Mouse embyro fibroblast cells) whole cell lysate with ab203517 at 1/70 dilution.

Western blot was performed from the immunoprecipitate using ab203517 at 1/1000 dilution.

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution.

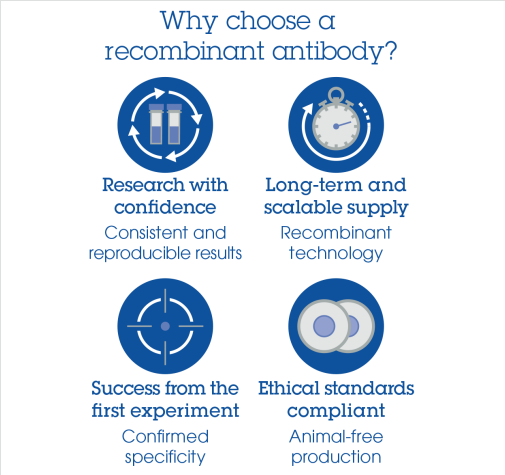
Lane 1: NIH/3T3 whole cell lysate 10ug (Input).

Lane 2: ab203517 IP in NIH/3T3 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab203517 in NIH/3T3 whole cell lysate.

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

Exposure time: 10 seconds.



Anti-BTF3 antibody [EPR16495] (ab203517)

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