abcam

Product datasheet

Anti-NFIB / NF1B2 + NFIC/CTF antibody [EPR14504] ab200829

Recombinant RabMAb

10 Images

Overview

Product name	Anti-NFIB / NF1B2 + NFIC/CTF antibody [EPR14504]
Description	Rabbit monoclonal [EPR14504] to NFIB / NF1B2 + NFIC/CTF
Host species	Rabbit
Tested applications	**Suitable for:** IP, Flow Cyt (Intra), WB, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, HepG2, MCF7, C6, RAW 264.7, PC-12 and NIH/3T3 whole cell lysates; Mouse heart, kidney and spleen lysates; Rat brain, heart and spleen lysates. IHC-P: Human cervix carcinoma and breast carcinoma, and mouse cardiac muscle tissues. ICC/IF: HeLa cells. Flow Cyt (intra): HeLa cells. IP: HeLa 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 (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR14504
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab200829 in the following tested applications.

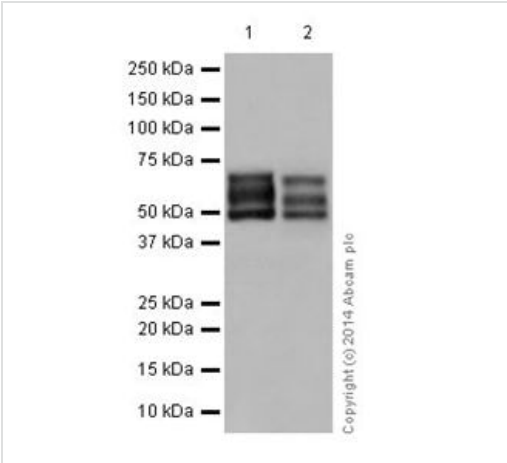
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		1/70.
Flow Cyt (Intra)		1/200.
WB		1/2000. Detects a band of approximately 45-65 kDa (predicted molecular weight: 56, 47 kDa).
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/1000.

Target

Cellular localization NFIB / NF1B2: Nucleus. NFIC/CTF: Nucleus.

Images



Western blot - Anti-NFIB / NF1B2 + NFIC/CTF antibody [EPR14504] (ab200829)

All lanes : Anti-NFIB / NF1B2 + NFIC/CTF antibody [EPR14504] (ab200829) at 1/10000 dilution

Lane 1 : HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate
Lane 2 : MCF7 (Human breast adenocarcinoma cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

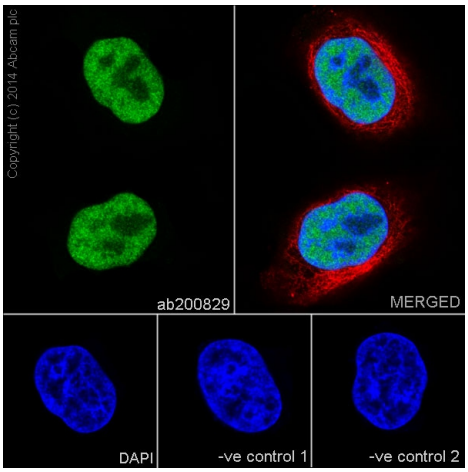
Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 56, 47 kDa
Observed band size: 45-65 kDa

Exposure time: 30 seconds

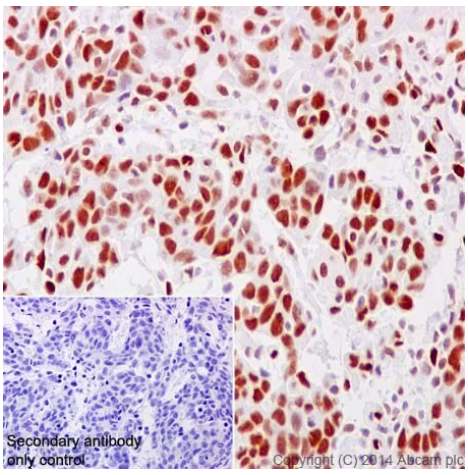
Blocking/Dilution buffer: 5% NFDM/TBST.

Based on the sequence analysis, ab200829 recognizes six isoforms within human with predicted Mw's of 56KDa, 55KDa, 48KDa, 45KDa, 48KDa and 49KDa, respectively.



Immunocytochemistry/ Immunofluorescence - Anti-NFIB / NF1B2 + NFIC/CTF antibody [EPR14504] (ab200829)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling NFIB / NF1B2 + NFIC with ab200829 at 1/1000 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/500 dilution (green). Nuclear staining on HeLa cell line is observed. 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 1/500 dilution (red).
The negative controls are as follows:-
-ve control 1: ab200829 at 1/1000 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 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 1/500 dilution.

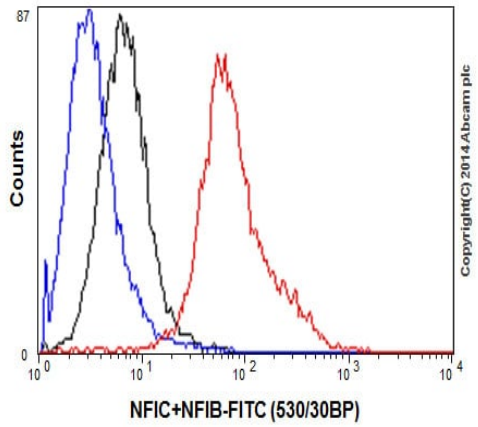


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NFIB / NF1B2 + NFIC/CTF antibody [EPR14504] (ab200829)

Immunohistochemical analysis of paraffin-embedded human cervix carcinoma tissue labeling NFIB / NF1B2 + NFIC with ab200829 at 1/1000 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear staining on Human cervix carcinoma tissue is observed. Counter stained with Hematoxylin.

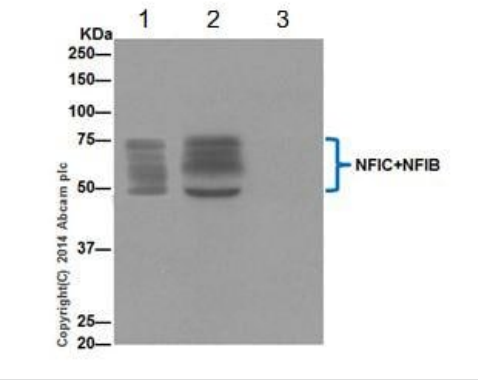
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

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



Flow Cytometry (Intracellular) - Anti-NFIB / NF1B2 + NFIC/CTF antibody [EPR14504] (ab200829)

Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed HeLa (Human epithelial cells from cervix adenocarcinoma)cells labeling NFIB / NF1B2 + NFICwith ab200829 at 1/200 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-NFIB / NF1B2 + NFIC/CTF antibody [EPR14504] (ab200829)

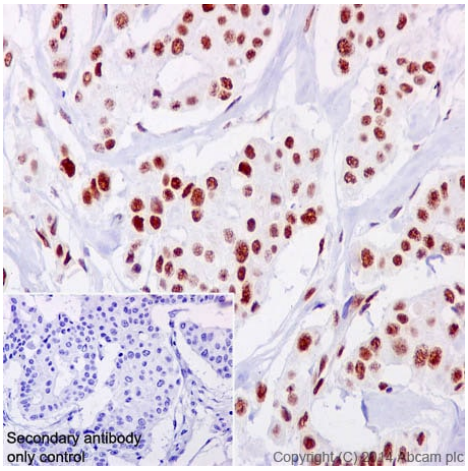
NFIB/NF1B2 + NFIC was immunoprecipitated from 1mg of HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate with ab200829 at 1/70 dilution. Western blot was performed from the immunoprecipitate using ab200829 at 1/5000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution.

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

Lane 2: ab200829 IP in HeLa whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab200829 in HeLa whole cell lysate.
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 10 seconds.

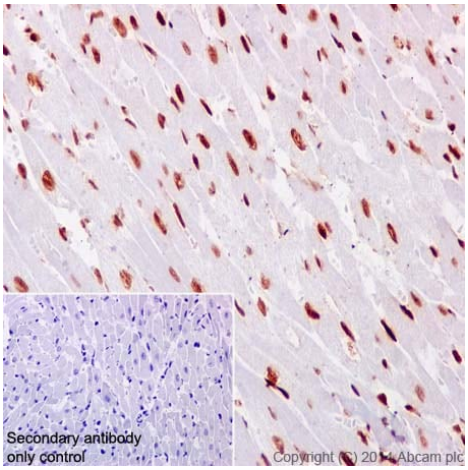


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NFIB / NF1B2 + NFIC/CTF antibody [EPR14504] (ab200829)

Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue labeling NFIB / NF1B2 + NFIC with ab200829 at 1/1000 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear staining on Human breast 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.

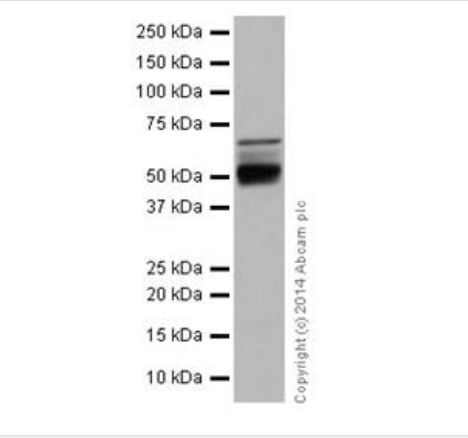


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NFIB / NF1B2 + NFIC/CTF antibody [EPR14504] (ab200829)

Immunohistochemical analysis of paraffin-embedded Mouse cardiac muscle tissue labeling NFIB / NF1B2 + NFIC with ab200829 at 1/1000 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear staining on mouse cardiac muscle 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.



Western blot - Anti-NFIB / NF1B2 + NFIC/CTF antibody [EPR14504] (ab200829)

Anti-NFIB / NF1B2 + NFIC/CTF antibody [EPR14504] (ab200829) at 1/10000 dilution + HepG2 (Human liver hepatocellular carcinoma cell line) cell lysate at 20 µg

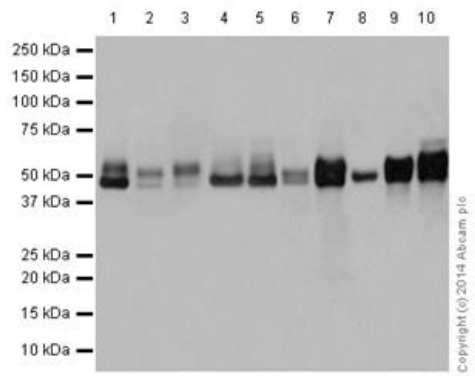
Secondary
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 56, 47 kDa
Observed band size: 45-65 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer:5% NFDM /TBST

Based on the sequence analysis, ab200829 recognizes six isoforms within human with predicted Mw's of 56KDa, 55KDa, 48KDa, 45KDa, 48KDa and 49KDa, respectively.



Western blot - Anti-NFIB / NF1B2 + NFIC/CTF antibody [EPR14504] (ab200829)

All lanes : Anti-NFIB / NF1B2 + NFIC/CTF antibody [EPR14504] (ab200829) at 1/2000 dilution

Lane 1 : Mouse heart lysate
Lane 2 : Mouse kidney lysate
Lane 3 : Mouse spleen lysate
Lane 4 : Rat brain lysate
Lane 5 : Rat heart lysate
Lane 6 : Rat spleen lysate
Lane 7 : C6 (Rat glial tumor cells) whole cell lysate
Lane 8 : RAW 264.7(Mouse macrophage cells transformed with Abelson murine leukemia virus) whole cell lysate
Lane 9 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate
Lane 10 : NIH/3T3 (Mouse embyro fibroblast cells) whole cell lysate

Lysates/proteins at 10 µg per lane.

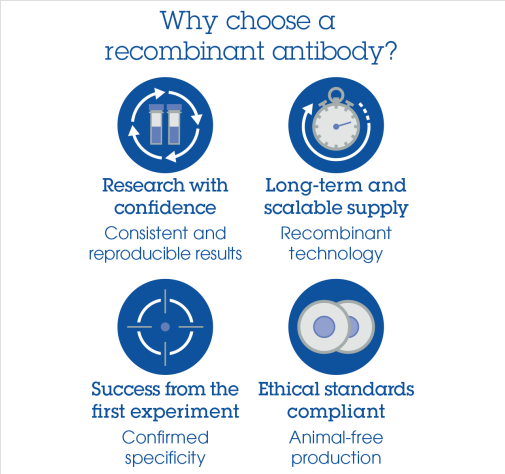
Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 56, 47 kDa
Observed band size: 45-65 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDM/TBST.

Based on the sequence analysis, ab200829 recognizes six isoforms within human with predicted Mw's of 56KDa, 55KDa, 48KDa, 45KDa, 48KDa and 49KDa, respectively.



Anti-NFIB / NF1B2 + NFIC/CTF antibody [EPR14504] (ab200829)

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