abcam

Product datasheet

Anti-NOP2 antibody [EPR24888-92] - BSA and Azide free ab282822

Recombinant RabMAb

10 Images

Overview

Product name	Anti-NOP2 antibody [EPR24888-92] - BSA and Azide free
Description	Rabbit monoclonal [EPR24888-92] to NOP2 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, IHC-P, IP, 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, 293T, NIH/3T3 and PC-12 whole cell lysate. IHC-P: Human cerebrum, Human lung adenocarcinoma, Mouse cerebrum and Rat cerebrum tissue. ICC/IF: HCT 116 and Neuro-2a cells. Flow Cyt(Intra): HCT 116 cells. IP: 293T cells.
General notes	ab282822 is the carrier-free version of **ab271075**. This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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.
Storage buffer	pH: 7.2 Constituent: 100% PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR24888-92
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab282822 in the following tested applications.

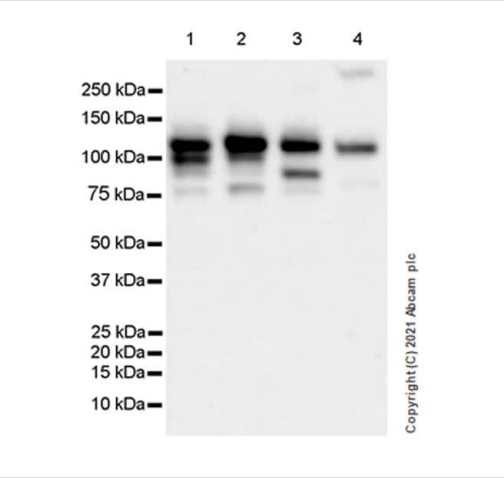
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 89 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.

Target

Relevance	NOP2 belongs to the methyltransferase superfamily of the RsmB/NOP family. NOP2 may play a role in the regulation of the cell cycle and the increased nucleolar activity that is associated with the cell proliferation. May act as ribosomal RNA methyltransferase.
Cellular localization	Nuclear; nucleolus

Images



Western blot - Anti-NOP2 antibody [EPR24888-92] - BSA and Azide free (ab282822)

All lanes : Anti-NOP2 antibody [EPR24888-92] (**ab271075**) at 1/1000 dilution

Lane 1 : HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate
Lane 2 : 293T (human embryonic kidney epithelial cell) whole cell lysate
Lane 3 : NIH/3T3 (mouse embryonic fibroblast) whole cell lysate
Lane 4 : PC-12 (rat adrenal gland pheochromocytoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

Predicted band size: 89 kDa
Observed band size: 110,90 kDa

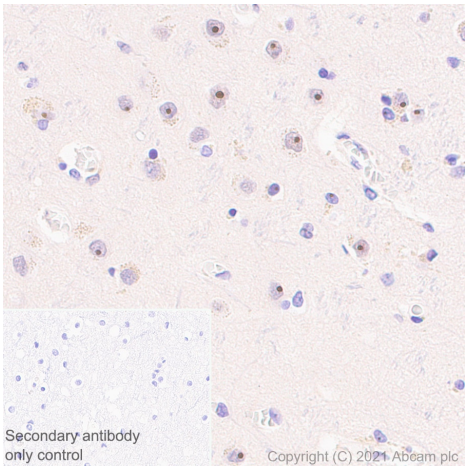
This data was developed using **ab271075**, the same antibody clone in a different buffer formulation.

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

Lysates were made freshly and used in WB test immediately to minimize protein degradation.

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID:25043274).

The multiple reactive bands would represent different NOP2 isoforms.



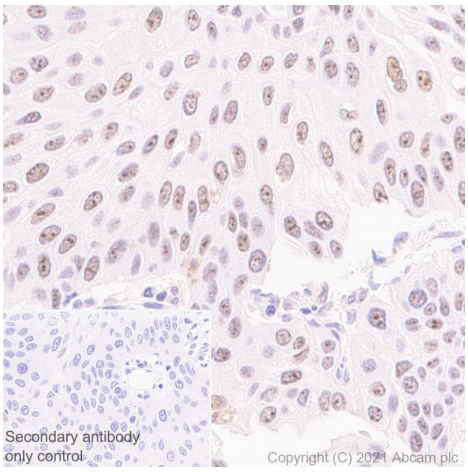
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NOP2 antibody [EPR24888-92] - BSA and Azide free (ab282822)

This data was developed using **ab271075**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded human cerebrum tissue labelling NOP2 with **ab271075** at 1/200 dilution (2.835 µg/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Nucleolar staining on human cerebrum (PMID: 25481415). The section was incubated with **ab271075** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



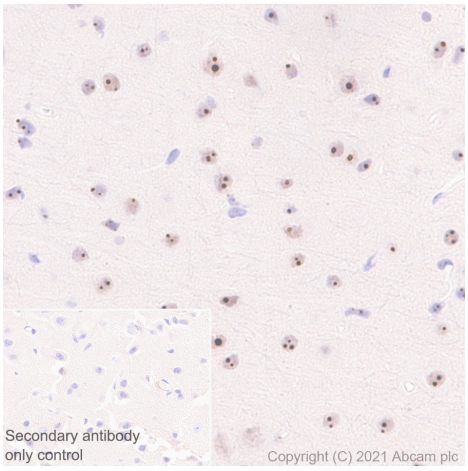
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NOP2 antibody [EPR24888-92] - BSA and Azide free (ab282822)

This data was developed using **ab271075**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded human lung adenocarcinoma tissue labelling NOP2 with **ab271075** at 1/200 dilution (2.835 µg/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Nuclear staining on human lung adenocarcinoma (PMID: 3422591). The section was incubated with **ab271075** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



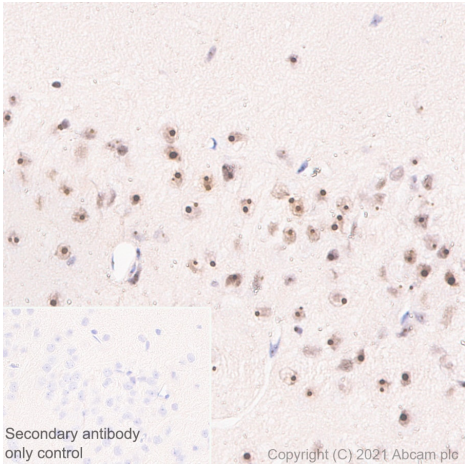
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NOP2 antibody [EPR24888-92] - BSA and Azide free (ab282822)

This data was developed using **ab271075**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded mouse cerebrum tissue labelling NOP2 with **ab271075** at 1/500 dilution (1.134 µg/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Nucleolar staining on mouse cerebrum. The section was incubated with **ab271075** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



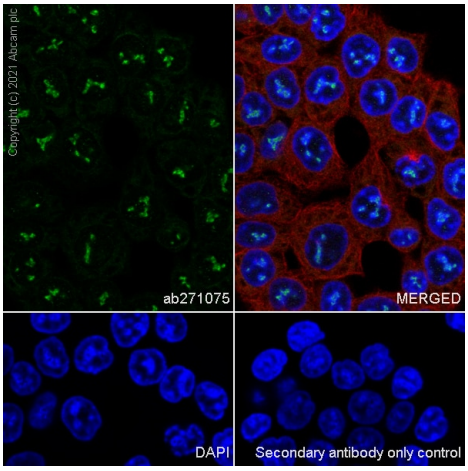
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NOP2 antibody [EPR24888-92] - BSA and Azide free (ab282822)

This data was developed using **ab271075**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded rat cerebrum tissue labelling NOP2 with **ab271075** at 1/500 dilution (1.134 µg/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. Nucleolar staining on rat cerebrum. The section was incubated with **ab271075** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

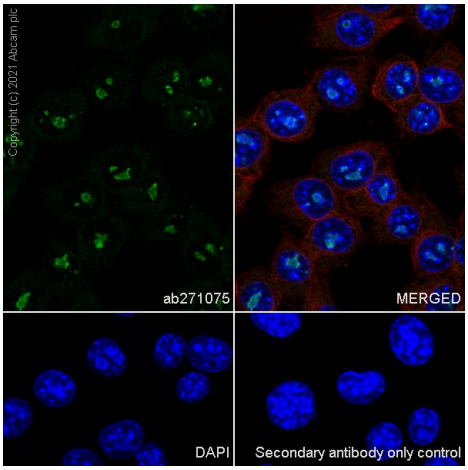


Immunocytochemistry/ Immunofluorescence - Anti-NOP2 antibody [EPR24888-92] - BSA and Azide free (ab282822)

This data was developed using **ab271075**, the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 100% methanol-fixed, 0.1% TritonX-100 permeabilized HCT 116 (human colorectal carcinoma cell line) cells labelling NOP2 with **ab271075** at 1/500 dilution (1.134 µg/ml), followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (2 µg/ml / Green). Confocal image showing nucleolar staining in HCT 116 cell line is observed. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (2.5 µg/ml / Red). Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 µg/ml) dilution.

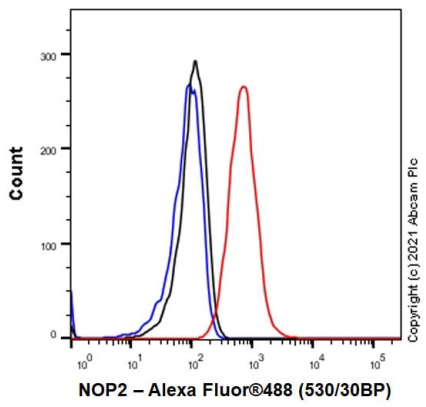


Immunocytochemistry/ Immunofluorescence - Anti-NOP2 antibody [EPR24888-92] - BSA and Azide free (ab282822)

This data was developed using **ab271075**, the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 100% methanol-fixed, 0.1% TritonX-100 permeabilized Neuro-2a (Mouse neuroblastoma cell line) cells labelling NOP2 with **ab271075** at 1/500 dilution (1.134 µg/ml), followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (2 µg/ml / Green). Confocal image showing nucleolar staining in Neuro-2a cell line is observed. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (2.5 µg/ml / Red). Nuclear counterstain was DAPI (Blue).

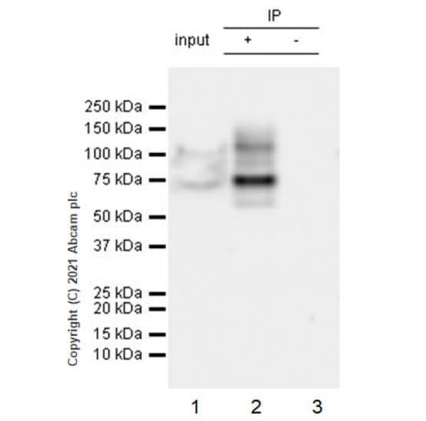
Secondary antibody only control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (2 µg/ml).



Flow Cytometry (Intracellular) - Anti-NOP2 antibody [EPR24888-92] - BSA and Azide free (ab282822)

This data was developed using **ab271075**, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HCT 116 (human colorectal carcinoma epithelial cell) cells labelling NOP2 with **ab271075** at 1/50 dilution (1µg / Red) compared with a Rabbit monoclonal IgG (**ab172730** / Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody / Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-NOP2 antibody [EPR24888-92] - BSA and Azide free (ab282822)

This data was developed using **ab271075**, the same antibody clone in a different buffer formulation.

NOP2 was immunoprecipitated from 0.35 mg 293T (human embryonic kidney epithelial cell) whole cell lysate with **ab271075** at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using **ab271075** at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(**ab131366**) was used at 1/5000 dilution.

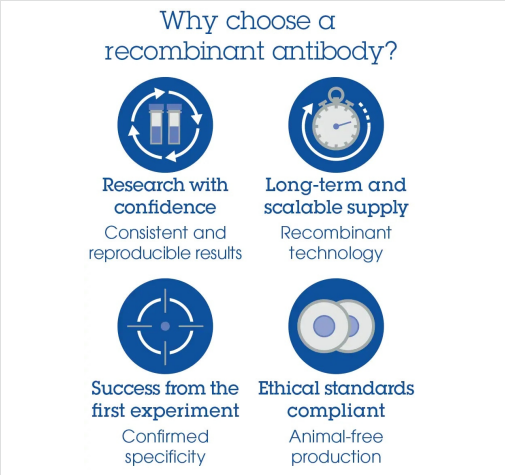
Lane 1: 293T (human embryonic kidney epithelial cell) whole cell lysate 10 µg

Lane 2: **ab271075** IP in 293T whole cell lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab271075** in 293T whole cell lysate

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

Exposure time: 24 seconds



Anti-NOP2 antibody [EPR24888-92] - BSA and Azide free (ab282822)

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