abcam

# Product datasheet

# Anti-SNRPD2 antibody [EPR16762] ab198296

Recombinant RabMAb

6 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-SNRPD2 antibody [EPR16762] |
| **Description** | Rabbit monoclonal [EPR16762] to SNRPD2 |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** WB, ICC/IF, IHC-P, Flow Cyt, IP |
| **Species reactivity** | **Reacts with:** Mouse, Rat, Human |
| **Immunogen** | within Human SNRPD2 aa 50 to the C-terminus. The exact sequence is proprietary.<br>Database link: P62316 |
| **Positive control** | WB: HepG2, MCF7, A549, HeLa, Mouse brain, Mouse spleen, Rat brain, Mouse spleen, C6, RAW 264.7 and PC12 lysates. IHC: Human and Rat kidney tissues. ICC/IF: HeLa and MCF7 cells. FC: HeLa cells |
| **General notes** | This product was previously labelled as Sm-D2<br><br>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.<br>This product is a recombinant rabbit monoclonal antibody. |

## Properties

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|---|---|
| **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** | Preservative: 0.01% Sodium azide<br>Constituents: 40% Glycerol, 0.05% BSA, 59% PBS |
| **Purity** | Protein A purified |
| **Clonality** | Monoclonal |
| **Clone number** | EPR16762 |
| **Isotype** | IgG |

## Applications

Our Abpromise guarantee covers the use of **ab198296** in the following tested applications.

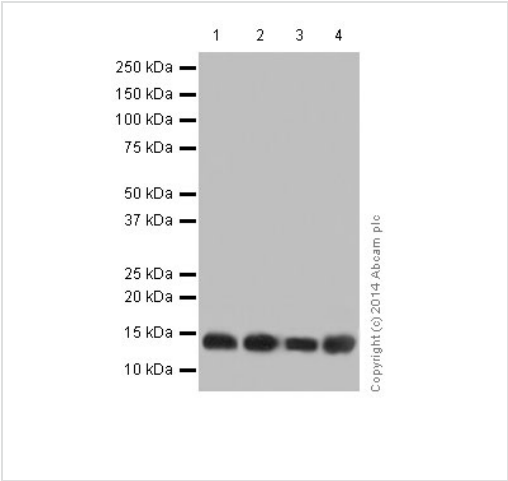
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| WB | | 1/2000. Detects a band of approximately 14 kDa (predicted molecular weight: 14 kDa). |
| ICC/IF | | 1/300. |
| IHC-P | | 1/600. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. |
| Flow Cyt | | 1/150. |
| IP | | Use at an assay dependent concentration. |

## Target

| | |
|---|---|
| **Function** | Required for pre-mRNA splicing. Required for snRNP biogenesis. |
| **Sequence similarities** | Belongs to the snRNP core protein family. |
| **Cellular localization** | Nucleus. |

## Images




Western blot - Anti-SNRPD2 antibody [EPR16762] (ab198296)

**All lanes :** Anti-SNRPD2 antibody [EPR16762] (ab198296) at 1/20000 dilution

**Lane 1 :** HepG2 cell lysate
**Lane 2 :** MCF7 cell lysate
**Lane 3 :** A549 cell lysate
**Lane 4 :** HeLa cell lysate

Lysates/proteins at 20 µg per lane.

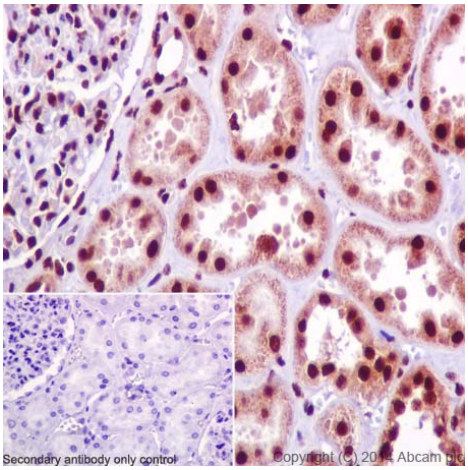
**Secondary**
**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Developed using the ECL technique.

**Predicted band size:** 14 kDa
**Observed band size:** 14 kDa

**Exposure time:** 30 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

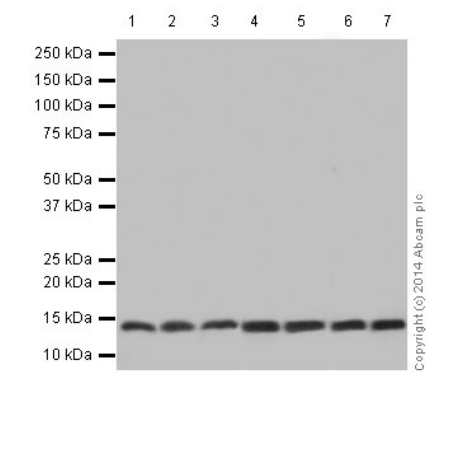



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SNRPD2 antibody [EPR16762] (ab198296)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling SNRPD2 with ab198296 at 1/600 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm and nucleus staining on Human kidney tissue is observed. Counter stained with Hematoxylin.

Negative control Using PBS instead of primary antbody, secondary ab is Goat Anti-Rabbit IgG H&L (HRP)

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




Western blot - Anti-SNRPD2 antibody [EPR16762] (ab198296)

**Lanes 1-6 :** Anti-SNRPD2 antibody [EPR16762] (ab198296) at 1/2000 dilution
**Lane 7 :** Anti-SNRPD2 antibody [EPR16762] (ab198296) at 1/20000 dilution

**Lane 1 :** Mouse brain lysate
**Lane 2 :** Mouse spleen lysate
**Lane 3 :** Rat brain lysate
**Lane 4 :** Rat spleen lysate
**Lane 5 :** C6 cell lysate
**Lane 6 :** RAW 264.7 cell lysate
**Lane 7 :** PC12 cell lysate

Lysates/proteins at 10 µg per lane.

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

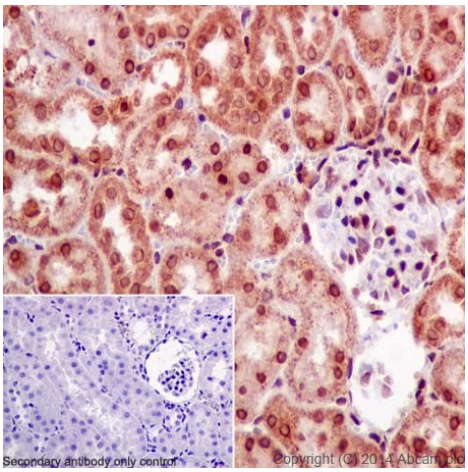
Developed using the ECL technique.

**Predicted band size:** 14 kDa

**Observed band size:** 14 kDa

**Exposure time:** 30 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

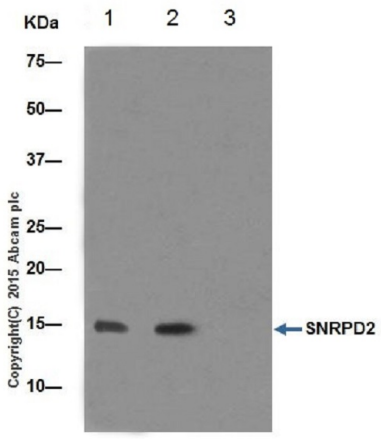



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SNRPD2 antibody [EPR16762] (ab198296)

Immunohistochemical analysis of paraffin-embedded Rat kidney tissue labeling SNRPD2 with ab198296 at 1/600 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm and nucleus staining on Rat kidney tissue is observed. Counter stained with Hematoxylin.

Negative control Using PBS instead of primary antbody, secondary ab is Goat Anti-Rabbit IgG H&L (HRP)

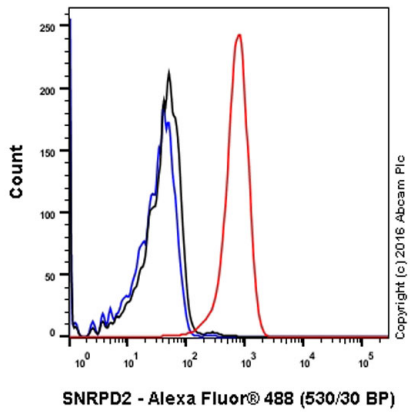
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.




Immunoprecipitation - Anti-SNRPD2 antibody [EPR16762] (ab198296)

NRPD2 protein was immunoprecipitation from 1mg of MCF-7 (Human breast adenocarcinoma) whole cell lysate with ab198296 at 1/100 dilution. Western blot was performed from the immunoprecipitate using ab198296 at 1/1000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1000 dilution. Lane 1: Input, MCF-7 (Human breast adenocarcinoma) whole cell lysate, 10ug. Lane 2: IP of NRPD2 from MCF-7 (Human breast adenocarcinoma) whole cell lysate. Lane 3: IP using Rabbit monoclonal IgG (ab172730) instead of ab198296 in MCF-7 (Human breast adenocarcinoma) whole cell lysate.

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




Flow Cytometry - Anti-SNRPD2 antibody [EPR16762] (ab198296)

Flow cytometry analysis of HeLa cells labelling SNRPD2 (red) with purified ab198296 at dilution of 1/150. The secondary antibody used was Alexa Fluor® 488 goat-anti-rabbit IgG (1/2000). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Isotype control antibody was Rabbit monoclonal IgG (black). The blue line shows cells without incubation with primary antibody and secondary antibody.

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