

# Product Datasheet

## Septin-2 Antibody - BSA Free

### NBP1-85212

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP1-85212**

Septin-2 Antibody - BSA Free

**Product Information**

<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol
<b>Target Molecular Weight</b>	41 kDa

**Product Description**

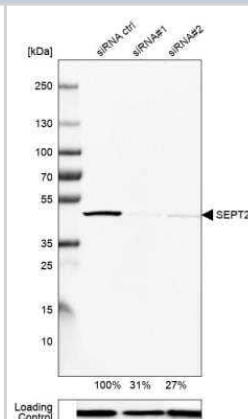
<b>Host</b>	Rabbit
<b>Gene ID</b>	4735
<b>Gene Symbol</b>	SEPTIN2
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: WGVVEVENPEHNDFLKLRTMLITHMQDLQEVTDQLHYENFRSERLKRGGGRKV ENEDMNKDQILLEKEAELRRMQEMIARMQAQMQMGMQGGDGDGGALGH

**Product Application Details**

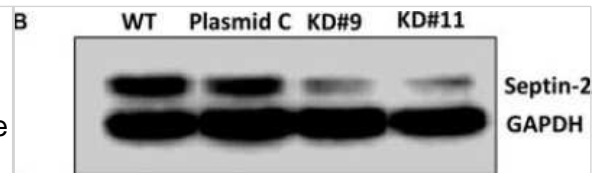
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200-1:500, Knockdown Validated
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

**Images**

Western Blot: Septin-2 Antibody [NBP1-85212] - Analysis in U-251MG cells transfected with control siRNA, target specific siRNA probe #1 and #2. Remaining relative intensity is presented. Loading control: Anti-PPIB.



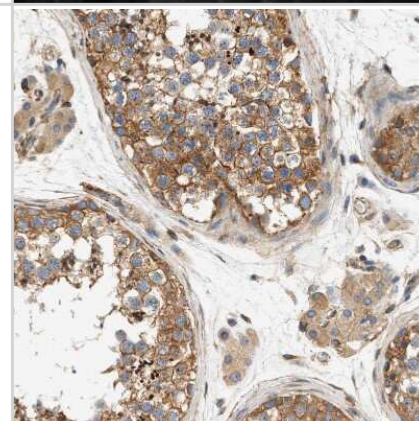
Western Blot: Septin-2 Antibody [NBP1-85212] - Stable septin-2 knockdown shows a decrease in proliferation. Verification of septin-2 knockdown at protein level visualized by Western blot. A single blot was probed simultaneously for septin-2 and GAPDH as a loading control. The original blot can be seen in Supplementary Figure 4. Image collected and cropped by CiteAb from the following publication (<https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.26836>), licensed under a CC-BY license.



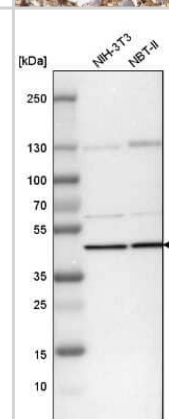
Immunocytochemistry/Immunofluorescence: Septin-2 Antibody [NBP1-85212] - Imaging of cultured rat cortical astrocytes. Image submitted by a verified customer review.



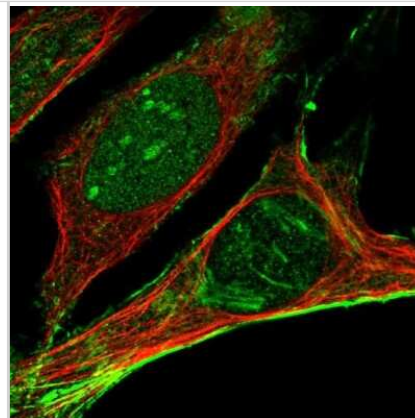
Immunohistochemistry-Paraffin: Septin-2 Antibody [NBP1-85212] - Staining of human testis shows strong membranous/cytoplasmic positivity in cells in seminiferous ducts.



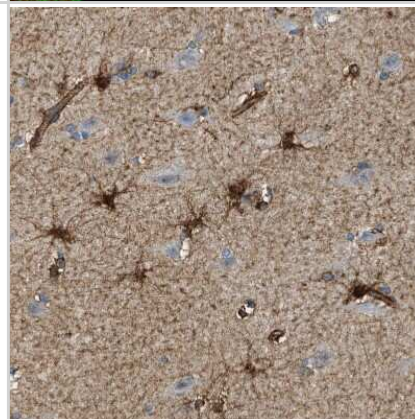
Western Blot: Septin-2 Antibody [NBP1-85212] - Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



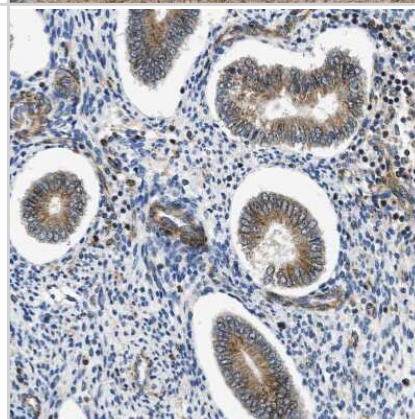
Immunocytochemistry/Immunofluorescence: Septin-2 Antibody [NBP1-85212] - Staining of human cell line U-2 OS shows localization to nucleus, nucleoli & actin filaments. Antibody staining is shown in green.



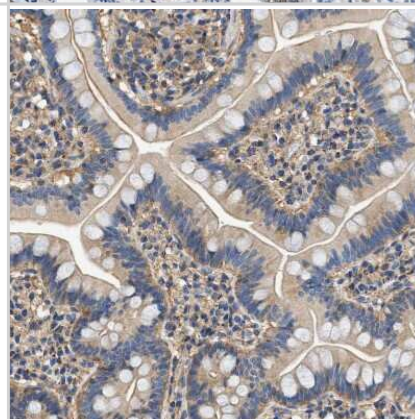
Immunohistochemistry-Paraffin: Septin-2 Antibody [NBP1-85212] - Staining of human cerebral cortex shows strong cytoplasmic positivity in glial cells.



Immunohistochemistry-Paraffin: Septin-2 Antibody [NBP1-85212] - Staining of human endometrium shows moderate cytoplasmic positivity in glandular cells.



Immunohistochemistry-Paraffin: Septin-2 Antibody [NBP1-85212] - Staining of human small intestine shows weak cytoplasmic positivity in glandular cells.



## Publications

Ana G, Bernardo O, Marco N et al. Micronuclei from misaligned chromosomes that satisfy the spindle assembly checkpoint in cancer cells. *Curr Biol.* 2022-08-27 [PMID: 36057259]

Lee AR Deciphering the Molecular Mechanisms of Orai1-dependent Entosis in Cancer Development and SEPTINS Cleavage-mediated Ciliary Defects in Coronavirus Infection Thesis 2023-01-01

Lee AR, Park CY Orai1 is an Entotic Ca<sup>2+</sup> Channel for Non-Apoptotic Cell Death, Entosis in Cancer Development Advanced science (Weinheim, Baden-Wurttemberg, Germany) 2023-03-24 [PMID: 36960682]

Lim RR, Hainsworth DP, Mohan RR, Chaurasia SS Septin-2 is overexpressed in epithelial ovarian cancer and mediates proliferation via regulation of cellular metabolic proteins *Oncotarget* 2019-04-26 [PMID: 31105878] (KD, WB, Human)

Volceanov L, Herbst K, Biniossek M et al. Septins Arrange F-Actin-Containing Fibers on the Chlamydia trachomatis Inclusion and Are Required for Normal Release of the Inclusion by Extrusion. *mBio* 2014-10-07 [PMID: 25293760] (IF/IHC, WB, Human)

Froidevaux-Klipfel L, Poirier F, Boursier C et al. Modulation of septin and molecular motor recruitment in the microtubule environment of the Taxol-resistant human breast cancer cell line MDA-MB-231. *Proteomics* 2011-10-01 [PMID: 21761557]





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### **Products Related to NBP1-85212**

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NBP1-85212PEP	Septin-2 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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