

Product Datasheet

Als2 Antibody - BSA Free NBP2-14284

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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NBP2-14284

Als2 Antibody - BSA Free

Product Information

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

Product Description

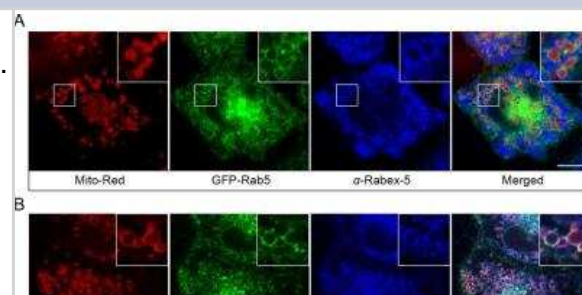
Description	Novus Biologicals Rabbit Als2 Antibody - BSA Free (NBP2-14284) is a polyclonal antibody validated for use in IHC and ICC/IF. Anti-Als2 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	57679
Gene Symbol	ALS2
Species	Human
Immunogen	This antibody was developed against a recombinant protein corresponding to the amino acids: FQPGLYYSGRQDPTEGDNLPHNSGSKTPVLLSCSKLGYISRVTAGKDSYLAL VDKNIMGYIASLHELATTERFYSLSD

Product Application Details

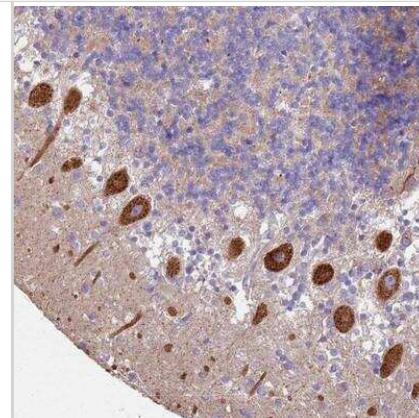
Applications	Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50 - 1:200
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

Images

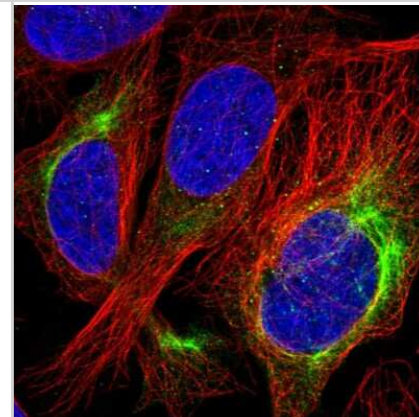
Immunocytochemistry/Immunofluorescence: Als2 Antibody [NBP2-14284] - Over-expression of Als2 or Rab5 blocks caspase-3/7 activation. (A) HeLa cells transiently expressing empty vector, Als2, or Rab5 were incubated in the presence of 500 uM H₂O₂ and 5 uM CellEvent caspase-3/7 green detection reagent at 37 degrees C for 2 hr. Nucleus was stained with DAPI (blue). Images were acquired by confocal microscopy. Caspase-activated cells displayed green signals, while non-activated cells (PBS control) showed no signal. Percent of cells with positive signals were quantified in (B), n = 50. Image collected and cropped by CiteAb from the following publication (elifesciences.org/articles/32282), licensed under a CC-BY license.



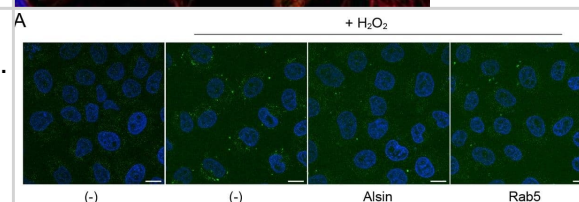
Immunohistochemistry-Paraffin: Als2 Antibody [NBP2-14284] - Staining of human cerebellum shows strong cytoplasmic positivity in Purkinje cells.



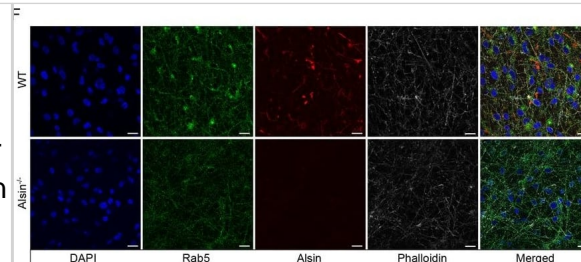
Immunocytochemistry/Immunofluorescence: Als2 Antibody [NBP2-14284] - Staining of human cell line U-2 OS shows localization to intermediate filaments. Antibody staining is shown in green.



Immunocytochemistry/ Immunofluorescence: Als2 Antibody [NBP2-14284] - Over-expression of Als2 or Rab5 blocks caspase-3/7 activation. (A) HeLa cells transiently expressing empty vector, Als2, or Rab5 were incubated in the presence of 500 μ M H₂O₂ & 5 μ M CellEvent caspase-3/7 green detection reagent at 37°C for 2 hr. Nucleus was stained with DAPI (blue). Images were acquired by confocal microscopy. Caspase-activated cells displayed green signals, while non-activated cells (PBS control) showed no signal. Percent of cells with positive signals were quantified in (B), n = 50. Error bars represent SEMs. Scale bars, 10 μ m. [10.7554/eLife.32282.045](https://doi.org/10.7554/eLife.32282.045) Figure 10—figure supplement 2—source data 1. Numerical data corresponding to the bar graphs presented in Figure 10—figure supplement 2B. Numerical data corresponding to the bar graphs presented in Figure 10—figure supplement 2B. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/29469808>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: Als2 Antibody [NBP2-14284] - Validation of the CRISPR/Cas9 Als^{-/-} cells in iPSC, NPC & iPSC-sMN. (A) Electrophoresis result of the PCR reaction using primers flanking exon three & within exon 3. Homozygous deletion was confirmed by the absence of a 2.8 kb. (B) Protein lysates from WT KOLF & Als^{-/-} iPSC were loaded onto SDS-PAGE & immunoblotted with Als^{-/-} antibody. A band detected at ~184 kDa, but absent in Als^{-/-}, corresponds to full-length Als^{-/-}. (C) WT KOLF, Als^{-/-} iPSC, & neuroprogenitor cells (NPC) were immunostained with pluripotency markers Oct4 & Lin28, & neuroprogenitor markers Sox2 & Pax6, respectively. (D–E) WT KOLF & Als^{-/-} iPSC-sMN were immunostained with motor neuron markers such as ChAT, HB9, & ISL1, nuclear dye DAPI, & cytoskeletal marker MAP2. (F) WT KOLF & Als^{-/-} iPSC-sMN were immunostained with antibodies against Rab5 & Als^{-/-}, along with DAPI (nuclear) & phalloidin (actin) stains. Scale bars, 10 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/29469808>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Hsu F, Spann S, Ferguson C et al. Rab5 and Als^{-/-} regulate stress-activated cytoprotective signaling on mitochondria. bioRxiv. [PMID: 29469808] (ICC/IF, Human)



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Products Related to NBP2-14284

NB820-59396	Human Brain Cerebellum Whole Tissue Lysate (Adult Whole Multiple Sclerosis)
NBP2-14284PEP	Als2 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

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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