

Product Datasheet

SUR1 Antibody (S289-16) - BSA Free NBP2-59320

Unit Size: 100 ug

Store at -20C.

www.novusbio.com



technical@novusbio.com

Reviews: 2 Publications: 4

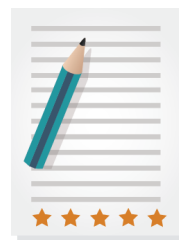
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NBP2-59320

SUR1 Antibody (S289-16) - BSA Free

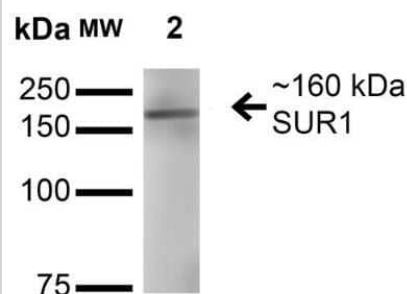
Product Information	
Unit Size	100 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C.
Clonality	Monoclonal
Clone	S289-16
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS (pH 7.4), 50% Glycerol

Product Description	
Description	Novus Biologicals Mouse SUR1 Antibody (S289-16) - BSA Free (NBP2-59320) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-SUR1 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	6833
Gene Symbol	ABCC8
Species	Human, Mouse, Rat, Hamster
Specificity/Sensitivity	Detects 160kDa. Does not cross-react with SUR2B.
Immunogen	Fusion protein amino acids 1548-1582 (cytoplasmic C-terminus) of rat SUR1

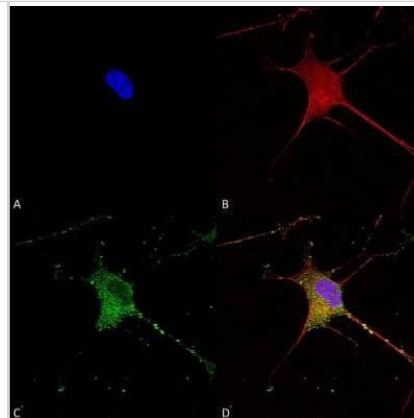
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:100

Images

Western Blot: SUR1 Antibody (S289-16) [NBP2-59320] - Western Blot analysis of Rat Brain Membrane showing detection of ~160 kDa SUR1 protein using Mouse Anti-SUR1 Monoclonal Antibody, Clone S289-16 (NBP2-59320). Lane 1: Molecular Weight Ladder. Lane 2: Rat Brain Membrane. Load: 15 ug. Block: 2% BSA and 2% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-SUR1 Monoclonal Antibody (NBP2-59320) at 1:200 for 16 hours at 4C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:1000 for 1 hour RT. Color Development: ECL solution for 6 min in RT. Predicted/Observed Size: ~160 kDa.



Immunocytochemistry/Immunofluorescence: SUR1 Antibody (S289-16) [NBP2-59320] - Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-SUR1 Monoclonal Antibody, Clone S289-16 (NBP2-59320). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-SUR1 Monoclonal Antibody (NBP2-59320) at 1:50 for overnight at 4C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) SUR1 Antibody (D) Composite.

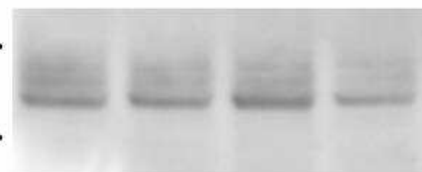


Western Blot: SUR1 Antibody (S289-16) [NBP2-59320] - Analysis of mouse pancreatic islets. Lane 1: Molecular Weight Ladder. Lanes 2-5: Samples from pooled pancreatic islets. Load: ~10ug. Primary Antibody: Anti-SUR1 Monoclonal Antibody at 1:200 for ~16hrs at 4C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:1000 for 1hr RT. Image from verified customer review.

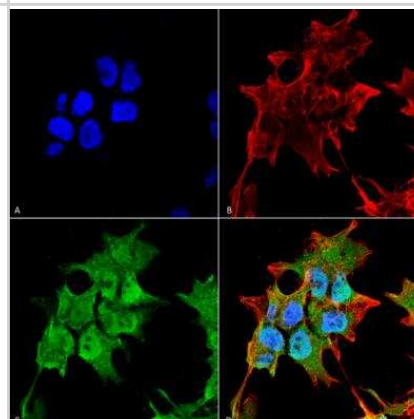
kDa

185 —

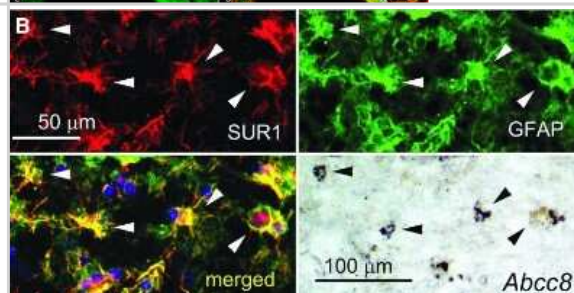
115 —



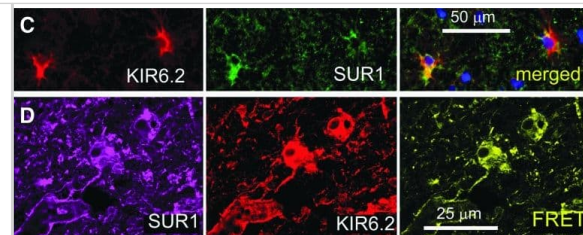
Immunocytochemistry/Immunofluorescence: SUR1 Antibody (S289-16) [NBP2-59320] - Analysis using Mouse Anti-SUR1 Monoclonal Antibody, Clone S289-16. Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-SUR1 Monoclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cytoplasm, Nucleus. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) SUR1 Antibody (D) Composite.



Immunocytochemistry/Immunofluorescence: SUR1 Antibody (S289-16) [NBP2-59320] - Glial fibrillary acidic protein (GFAP)-positive specimens from human contusion- traumatic brain injury (TBI) exhibit sulfonyleurea receptor 1 (SUR1) expression in astrocytes. Double immunolabeling for SUR1 (red) and GFAP (green) showed astrocyte expression of SUR1; merged images confirm co-localization (yellow); in situ hybridization of the same tissue section for *Abcc8* messenger RNA showed positive signal co-localized with GFAP-positive, SUR1-expressing astrocytes; arrowheads point to cells with all three signals. Image collected and cropped by CiteAb from the following publication (<http://www.liebertpub.com/doi/10.1089/neu.2018.5986>) licensed under a CC-BY license.



Immunocytochemistry/ Immunofluorescence: SUR1 Antibody (S289-16) [NBP2-59320] - Glial fibrillary acidic protein (GFAP)-positive specimens from human contusion- traumatic brain injury (TBI) exhibit KIR6.2 expression in astrocytes. (A) Immunolabeling for KIR6.2 showed sparse immunoreactivity in the control specimen (CTR) vs. widespread expression in a GFAP-positive specimen from contusion-TBI. (B) Double immunolabeling for GFAP (red) & KIR6.2 (green) showed astrocyte expression of KIR6.2; merged images confirm co-localization (yellow); in situ hybridization of the same tissue section for *Kcnj11* messenger RNA showed positive signal co-localized with GFAP-positive, KIR6.2-expressing astrocytes; arrowheads point to cells with all three signals. (C) Double immunolabeling showed that KIR6.2 (red) & sulfonylurea receptor 1 (SUR1; green) were co-localized (yellow) in astrocytes. (D) ImmunoFRET for SUR1 (magenta) & KIR6.2 (red) showed co-assembly of SUR1-KIR6.2 heteromers (yellow pseudocolor) in astrocytes. (E) Double immunolabeling showed that KIR6.2 (green) & transient receptor potential cation channel subfamily M member 4 (TRPM4) (red) were co-localized in astrocytes. The findings illustrated are representative of all GFAP-positive specimens from eight cases of human contusion-TBI. (case #2, 11 days post-TBI; case #5, 1 day post-TBI) Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30160201>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Zhou J, Zhang Z, Yang Y et al. Deletion of serine racemase reverses neuronal insulin signaling inhibition by amyloid-beta oligomers *Journal of neurochemistry* 2022-07-15 [PMID: 35839294]

Yeh S, Hsu P, Yeh T et al. Capping Protein Regulator and Myosin 1 Linker 3 (CARMIL3) as a Molecular Signature of Ischemic Neurons in the DWI-T2 Mismatch Areas After Stroke *Frontiers in Molecular Neuroscience* 2021-12-16 [PMID: 34975397] (IF/IHC, Rat)

Tsymbalyuk O, Gerzanich V, Mumtaz A et al. SUR1, newly expressed in astrocytes, mediates neuropathic pain in a mouse model of peripheral nerve injury *Molecular pain* 2021-03-31 [PMID: 33788643] (IF/IHC, Mouse)

Gerzanich V, Stokum J, Ivanova S et al. SUR1, TRPM4 and KIR6.2 - role in hemorrhagic progression of contusion. *J. Neurotrauma* 2018-08-30 [PMID: 30160201] (IF/IHC, Human)



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Products Related to NBP2-59320

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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