Product Datasheet

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

Unit Size: 100 ug

Store at -20C.

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Reviews: 2 Publications: 4

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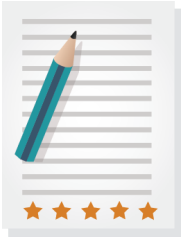
Updated 2/23/2025 v.20.1



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

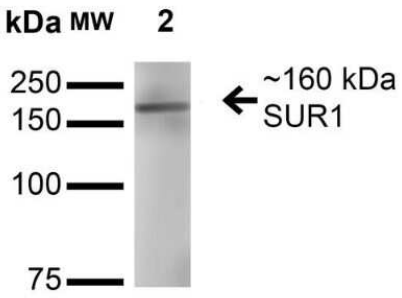
Host	Mouse
Gene ID	6833
Gene Symbol	ABCC8
Species	Human, Mouse, Rat, Hamster
Specificity/Sensitivity	Detects 160kDa. Does not cross-react with SUR2B.
Immunogen	Fusion protein amino acids 1548-1582 (cytoplasmic C-terminus) of rat SUR1

Product Application Details

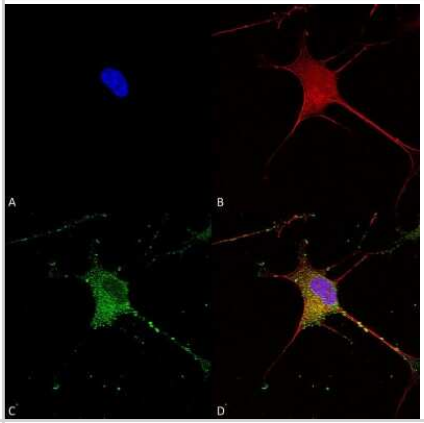
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:100

Images

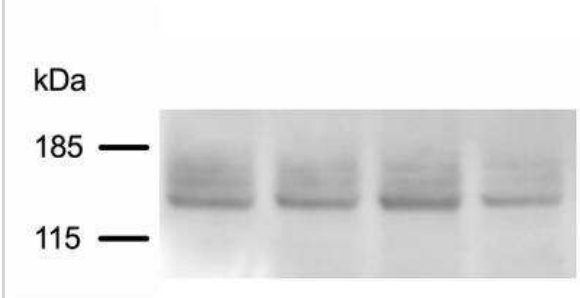
Western Blot: SUR1 Antibody (S289-16) [NBP2-59320] - Western Blot analysis of Rat Brain Membrane showing detection of ~160 kDa SUR1 protein using Mouse Anti-SUR1 Monoclonal Antibody, Clone S289-16 (NBP2-59320). Lane 1: Molecular Weight Ladder. Lane 2: Rat Brain Membrane. Load: 15 ug. Block: 2% BSA and 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.



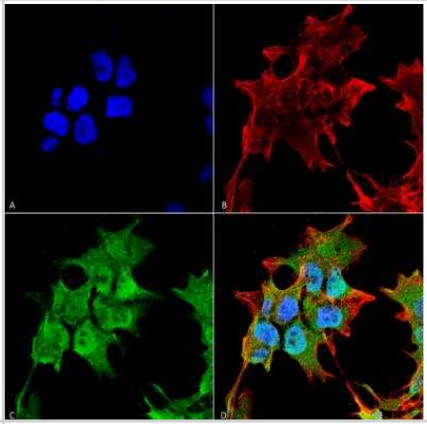
Immunocytochemistry/Immunofluorescence: SUR1 Antibody (S289-16) [NBP2-59320] - Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-SUR1 Monoclonal Antibody, Clone S289-16 (NBP2-59320). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse 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.



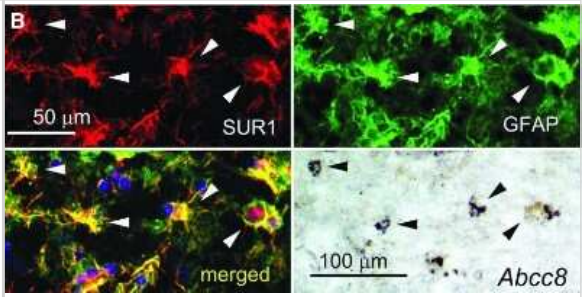
Western Blot: SUR1 Antibody (S289-16) [NBP2-59320] - Analysis of mouse pancreatic islets. Lane 1: Molecular Weight Ladder. Lanes 2-5: Samples from pooled pancreatic islets. Load: ~10ug. Primary Antibody: Anti-SUR1 Monoclonal Antibody at 1:200 for ~16hrs at 4C. Secondary Antibody: Goat Anti-Mouse IgG: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



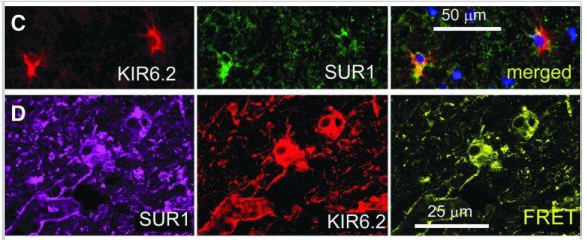
Immunocytochemistry/Immunofluorescence: SUR1 Antibody (S289-16) [NBP2-59320] - Analysis using Mouse Anti-SUR1 Monoclonal Antibody, Clone S289-16. Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-SUR1 Monoclonal Antibody 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 sulfonylurea 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 (//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

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
H00006833-Q01-10ug	Recombinant Human SUR1 GST (N-Term) Protein

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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