Rabbit SUR1 Polyclonal Antibody | anti-SUR1 antibody

Anti-SUR1 Picoband antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124599	**Rabbit**	**Human, Mouse, RatNo cross reactivity with other proteins.**	**Western Blot, Immunocytochemistry, Immunohistochemistry, Flow Cytometry, Functional Assay**

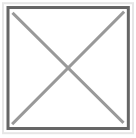
PRODUCT SYNONYMS

SUR1; Polyclonal Antibody; Anti-SUR1 Picoband antibody; ATP-binding cassette sub-family C member 8; Sulfonylurea receptor 1; ABCC8; HRINS; SUR; anti-SUR1 antibody

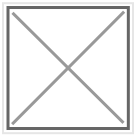
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	50
Applicable Applications for anti-SUR1 antibody	WB (Western Blot), ICC (Immunocytochemistry), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Immunogen	A synthetic peptide corresponding to a sequence of human SUR1 (TIQREGTLKDFQRSECQLFEHWKTLMNRQDQELEKETVTERKA).
Subcellular Localization	Cell membrane.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of A431 cells using anti-ABCC8 antibody (AAA124599).Overlay histogram showing A431 cells stained with AAA124599 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ABCC8 Antibody (AAA124599,1ug/1x10^6 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of SUR1 using anti-SUR1 antibody (AAA124599).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human placenta tissue lysates,Lane 2: rat brain tissue lysates,Lane 3: mouse brain tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SUR1 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for SUR1 at approximately 177KD. The expected band size for SUR1 is at 177KD.

ADDITIONAL INFORMATION

Related Product Information for anti-SUR1 antibody	Description: ATP-binding cassette transporter sub-family C member 8 is a protein that in humans is encoded by the ABCC8 gene. The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MRP subfamily which is involved in multi-drug resistance. This protein functions as a modulator of ATP-sensitive potassium channels and insulin release. Mutations and deficiencies in this protein have been observed in patients with hyperinsulinemic hypoglycemia of infancy, an autosomal recessive disorder of unregulated and high insulin secretion. Mutations have also been associated with non-insulin-dependent diabetes mellitus type II, an autosomal dominant disease of defective insulin secretion. Alternatively spliced transcript variants have been found for this gene. Protein Function: Subunit of the beta-cell ATP-sensitive potassium channel (KATP). Regulator of ATP-sensitive K(+) channels and insulin release.
Product Categories/Family for anti-SUR1 antibody	Signal Transduction; Metabolism; plasma membrane; channels; Signal Transduction; Drug Metabolism; Cardiovascular; Atherosclerosis; Diabetes Associated; Heart; cardiac arrhythmias; Cancer; Cancer Metabolism; Metabolic Signaling Pathway; Integration of Ener

NCBI AND UNIPROT INFORMATION

NCBI GI #	118582255
NCBI GeneID	6833
NCBI Accession #	NP_000343.2
NCBI GenBank Nucleotide #	NM_000352.4
UniProt Accession #	Q09428; O75948; Q16583; A6NMX8; E3UYX6
Molecular Weight	5,468 Da
NCBI Official Full Name	ATP-binding cassette sub-family C member 8 isoform 2
NCBI Official Synonym Full Names	ATP binding cassette subfamily C member 8
NCBI Official Symbol	ABCC8
NCBI Official Synonym Symbols	HI; SUR; HHF1; MRP8; PHHI; SUR1; ABC36; HRINS; TNDM2; SUR1delta2
NCBI Protein Information	ATP-binding cassette sub-family C member 8
UniProt Protein Name	ATP-binding cassette sub-family C member 8
UniProt Gene Name	**ABCC8**
UniProt Synonym Gene Names	HRINS; SUR; SUR1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/sur1-antibody-western-blot-immunocytochemistry-immunohistochemistry-flow-cytometry-elisa/124599