Mouse TrpC7 Monoclonal Antibody | anti-TRPC7 antibody

TrpC7 Antibody: Biotin

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA103143	**Mouse**	**Human, Mouse, Rat**	**Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Western Blot**

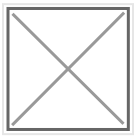
PRODUCT SYNONYMS

TrpC7; Monoclonal Antibody; TrpC7 Antibody: Biotin; TRP7; KNP3; TRPM2; transient receptor potential cation channel subfamily C member 7; anti-TRPC7 antibody

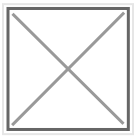
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG1
Clone Number	S64A-36
Form/Format	Protein G Purified
Concentration	1mg/mL (varies by lot)
Sequence Length	862
Applicable Applications for anti-TRPC7 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), IP (Immunoprecipitation), WB (Western Blot)
Conjugate	Biotin
Storage Buffer	PBS pH7.4, 50% glycerol, 0.09% sodium azide
Preparation and Storage	-20 degree C

IMAGES



ICC (Immunocytochemistry)
Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-TrpC7 Monoclonal Antibody, Clone S64A-36. Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20 degree C. Primary Antibody: Mouse Anti-TrpC7 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Nuclear staining .



WB (Western Blot)
Western Blot analysis of Rat brain membrane lysate showing detection of TrpC7 protein using Mouse Anti-TrpC7 Monoclonal Antibody, Clone S64A-36. Load: 15 ug. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-TrpC7 Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

IHC (Immunohistochemistry)
Immunohistochemistry analysis using Mouse Anti-TrpC7 Monoclonal Antibody, Clone S64A-36. Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-TrpC7 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Everything.

ADDITIONAL INFORMATION

Related Product Information for anti-TRPC7 antibody	**Background Info:** Detects ~100kDa. **Scientific Background:** Transient receptor potential cation channel, subfamily C, member 7, also known as TRPC7, is a non-selective cation channel that is directly activated by DAG. TrpC7 shows constitutive activity and susceptibility to negative regulation by extracellular Ca2+. Because of this, TrpC7 plays an important role in the Ca2+ signaling pathway (3). TrpC7 is also expressed abundantly in the heart, and combined with its ability to act as a Ca2+ channel, TrpC7 might contribute to the process of heart failure (4).
Product Categories/Family for anti-TRPC7 antibody	Ion Channels; Neuroscience
References	1. Hille B. (2001) Ion Channels of Excitable Membranes, 3rd Ed., Sinauer Associated Inc.: Sunderland, MA USA. 2. www.iochannels.org 3. Numaga T., Wakamori M., and Mori Y. (2007) Handb Exp Pharmacol. 179: 143-151. 4. Satoh S., et al. (2007) Mol Cell Biochem. 294(1-2): 205-215.

NCBI AND UNIPROT INFORMATION

NCBI GI #	9966865
NCBI GeneID	57113
NCBI Accession #	NP_065122.1
NCBI GenBank Nucleotide #	NM_020389.2
UniProt Accession #	Q9HCX4; Q70T26; Q8IWP7; A1A4Z4; F5H5U9
Molecular Weight	92,429 Da
NCBI Official Full Name	short transient receptor potential channel 7 isoform 1
NCBI Official Synonym Full Names	transient receptor potential cation channel, subfamily C, member 7
NCBI Official Symbol	TRPC7
NCBI Official Synonym Symbols	TRP7
NCBI Protein Information	short transient receptor potential channel 7; TRP-7; hTRP7; transient receptor protein 7; putative capacitative calcium channel; likley ortholog of mouse transient receptor potential cation channel, subfamily C, member 7
UniProt Protein Name	Short transient receptor potential channel 7
UniProt Gene Name	**TRPC7**
UniProt Synonym Gene Names	TRP7; TrpC7; TRP-7; hTRP7
UniProt Entry Name	TRPC7_HUMAN

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/monoclonal/trpc7-antibody-clone-s64a-36-immunofluorescence-immunohistochemistry-immunoprecipitation-western-blot-elisa/103143