TRPC7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TRPC7, Polyclonal Antibody
Full Product Name	TRPC7, CT (TRPC7, TRP7, Short transient receptor potential channel 7, Transient receptor protein 7) (MaxLight 750)
Product Gene Name	anti-TRPC7 antibody
Product Synonym Names	TRPC7; TRP7; Short transient receptor potential channel 7; Transient receptor protein 7
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	92,429 Da
3D Structure	ModBase 3D Structure for Q9HCX4
Immunogen	TRPC7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 833-862 amino acids from the C-terminal region of human TRPC7.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-TRPC7 antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-TRPC7 antibody	Western Blot (WB), FLISA
Application Notes for anti-TRPC7 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-TRPC7 antibody	Thought to form a receptor-activated non-selective calcium permeant cation channel. Probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. Activated by diacylglycerol (DAG) (By similarity). May also be activated by intracellular calcium store depletion.
Product References and Citations for anti-TRPC7 antibody	Rose, J. Phd, et al. Mol. Med. (2010). In press: Miyagi, K., et al. J. Biol. Chem. 284(49):34400-34412(2009). Graubert, T.A., et al. PLoS ONE 4 (2), E4583 (2009): Abed, E., et al. Cell Prolif. 40(6):849-865(2007). Numaga, T., et al. Handb Exp Pharmacol 179, 143-151 (2007).
Other Notes	Small volumes of anti-TRPC7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for TRPC7 purchase	MBS6358856 is an antibody targeting TRPC7. Also known as TRPC7, CT (TRPC7, TRP7, Short transient receptor potential channel 7, Transient receptor protein 7) (MaxLight 750). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRPC7. It may not necessarily be applicable to this product.

NCBI GI #	9966865
NCBI GeneID	57113
NCBI Accession #	NP_065122.1
UniProt Primary Accession #	Q9HCX4
UniProt Secondary Accession #	Q70T26; Q8IWP7; A1A4Z4; F5H5U9
UniProt Related Accession #	Q9HCX4
GenBank Nucleotide #	NM_020389.2
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
UniProt Protein Name	Short transient receptor potential channel 7
UniProt Synonym Protein Names	Transient receptor protein 7; TRP-7; hTRP7
Protein Family	Short transient receptor potential channel
UniProt Gene Name	TRPC7
UniProt Synonym Gene Names	TRP7; TrpC7; TRP-7; hTRP7
UniProt Entry Name	TRPC7_HUMAN
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 Comments for TRPC7	TRPC7: Thought to form a receptor-activated non-selective calcium permeant cation channel. Probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. Activated by diacylglycerol (DAG). May also be activated by intracellular calcium store depletion. Belongs to the transient receptor (TC 1.A.4) family. STrpC subfamily. TRPC7 sub-subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Channel, calcium; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 5q31.1 Cellular Component: cis-Golgi network; integral to plasma membrane; nuclear envelope; perinuclear region of cytoplasm; plasma membrane Molecular Function: calcium channel activity; protein binding; store-operated calcium channel activity Biological Process: cytosolic calcium ion homeostasis; manganese ion transport; platelet activation; single fertilization
Research Articles on TRPC7	**1.** A fundamental role for PI(4,5)P2 was identified in the regulation of TRPC7 and TRPC6.

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