

Datasheet for ABIN2483104

anti-TRPM7 antibody (AA 1817-1863) (Atto 390)[Go to Product page](#)

4 Images

Overview

Quantity:	100 µg
Target:	TRPM7
Binding Specificity:	AA 1817-1863
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TRPM7 antibody is conjugated to Atto 390
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), Antibody Array (AA)

Product Details

Immunogen:	Fusion protein amino acids 1817-1863 (C- terminus) of mouse TrpM7
Clone:	S74
Isotype:	IgG1
Specificity:	Detects ~220 kDa in extracts of cells transiently transfected with TrpM7. No cross-reactivity against TrpM6.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	TRPM7
Alternative Name:	TRPM7 (TRPM7 Products)
Background:	TRPs, mammalian homologs of the Drosophila transient receptor potential (trp) protein, are ion channels that are thought to mediate capacitative calcium entry into the cell. TRP-PLIK is a protein that is both an ion channel and a kinase. As a channel, it conducts calcium and monovalent cations to depolarize cells and increase intracellular calcium. As a kinase, it is capable of phosphorylating itself and other substrates. The kinase activity is necessary for channel function, as shown by its dependence on intracellular ATP and by the kinase mutants (1, 2).
Gene ID:	58800
NCBI Accession:	NP_001157797
UniProt:	Q923J1

Application Details

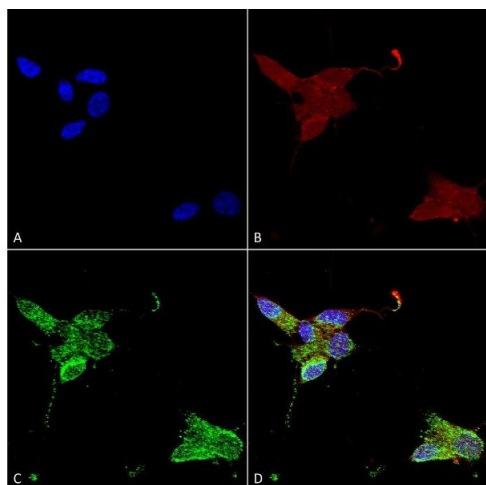
Application Notes:	<ul style="list-style-type: none">• WB (1:1000)• IHC (1:1000)• ICC/IF (1:100)• optimal dilutions for assays should be determined by the user.
Comment:	1 µg/ml of ABIN2483104 was sufficient for detection of TrpM7 in 10 µg of COS cell lysate transiently transfected with TprM7 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C

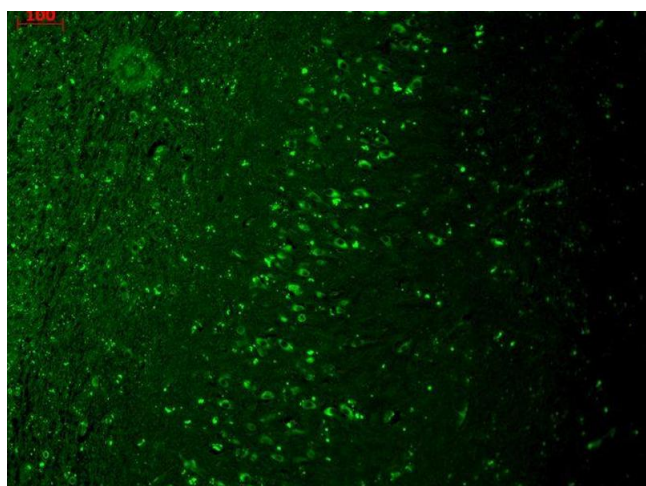
Storage Comment: Conjugated antibodies should be stored at 4°C

Images



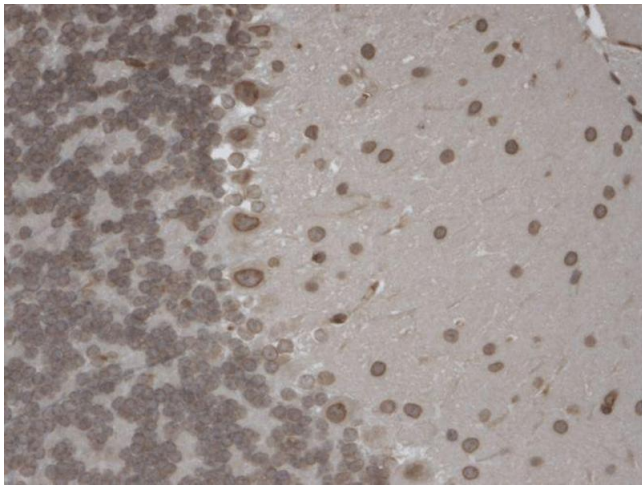
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-TrpM7 Monoclonal Antibody, Clone S74 (ABIN2483104). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-TrpM7 Monoclonal Antibody (ABIN2483104) at 1:50 for overnight at 4°C 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, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) TrpM7 Antibody (green) stain. (D) Composite.



Immunohistochemistry

Image 2. Immunohistochemistry analysis using Mouse Anti-TrpM7 Monoclonal Antibody, Clone S74-25. Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-TrpM7 Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



Immunohistochemistry

Image 3. Immunohistochemistry analysis using Mouse Anti-TrpM7 Monoclonal Antibody, Clone S74-25 . Tissue: Brain Slice. Species: Mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-TrpM7 Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 µl for 5 minutes at RT. Localization: Nuclear staining of both neurons and glia.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2483104.