

Datasheet for ABIN2483105

**anti-TRPM7 antibody (AA 1817-1863) (Atto 488)**[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 488
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 ( <a href="#">TRPM7 Products</a> )
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:	<a href="#">NP_001157797</a>
UniProt:	<a href="#">Q923J1</a>

## Application Details

Application Notes:	<ul style="list-style-type: none"><li>• WB (1:1000)</li><li>• IHC (1:1000)</li><li>• ICC/IF (1:100)</li><li>• optimal dilutions for assays should be determined by the user.</li></ul>
Comment:	1 µg/ml of ABIN2483105 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

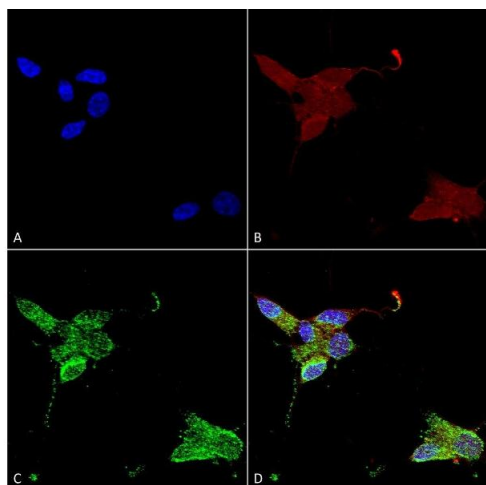
## Handling

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

## Handling

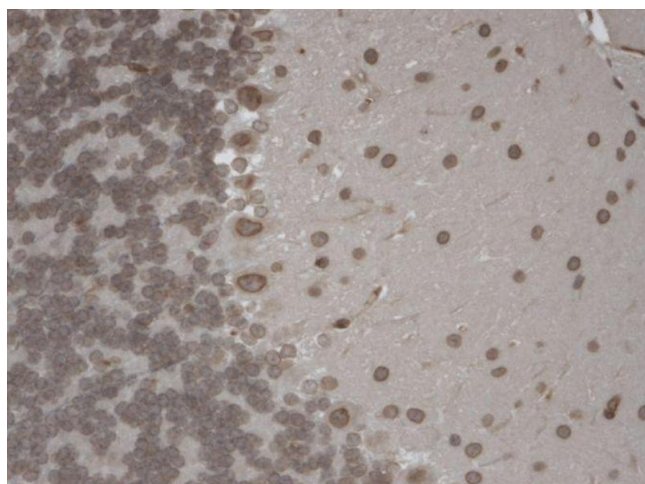
Storage Comment: Conjugated antibodies should be stored at 4°C

## Images



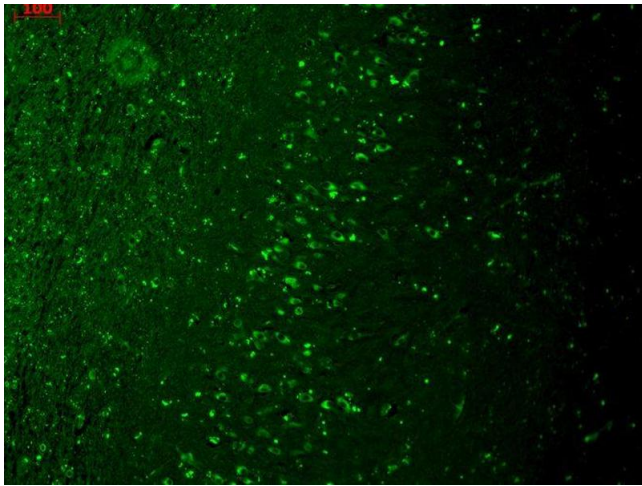
### Immunocytochemistry

**Image 1.** Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-TrpM7 Monoclonal Antibody, Clone S74 (ABIN2483105). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-TrpM7 Monoclonal Antibody (ABIN2483105) 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 (D) Composite.



### Immunohistochemistry

**Image 2.** 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.



### Immunohistochemistry

**Image 3.** 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.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2483105.