

Datasheet for ABIN7043329

anti-MMGT1 antibody (Intracellular)



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1 Image

Overview

Quantity:	25 µL
Target:	MMGT1
Binding Specificity:	AA 118-131, Intracellular
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MMGT1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to Membrane Magnesium Transporter MMgT1
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)NTSLKLRKFDSLRR, corresponding to amino acid residues 118-131 of rat MMGT1
Isotype:	IgG
Specificity:	Intracellular, C-terminus
Cross-Reactivity:	Mouse, Rat
Predicted Reactivity:	Mouse - identical, human - 12,14 amino acid residues identical
Characteristics:	Anti-MMGT1 Antibody is directed against an epitope of rat membrane magnesium transporter 1. Anti-MMGT1 Antibody(ABIN7043329, ABIN7044853 and ABIN7044854) can be used in

Product Details

western blot analysis. It has been designed to recognize MMgT1 from mouse, rat and human samples.

Purification: Affinity purified on immobilized antigen.

Target Details

Target: MMGT1

Alternative Name: MMGT1 ([MMGT1 Products](#))

Background: Membrane magnesium transporter 1, ER membrane protein complex subunit 5, Transmembrane protein 32, Emc5, Tmem32, The MMgT gene family is comprised of two members: MMgT1 (membrane Mg²⁺ transporter 1) and MMgT2 (membrane Mg²⁺ transporter 2). Both proteins mediate Mg²⁺ uptake when expressed in *Xenopus laevis* oocytes. An increase in MMgT1 and MMgT2 transcripts is detected when there are low levels of Mg²⁺. There are two predicted transmembrane domains suggesting that the protein can form functional oligomers. It has been suggested that it may form homo- and, perhaps, heterooligomeric units. MMgT1 can be found in the cell in golgi complex and post-golgi vesicles. The protein is expressed in a wide variety of tissues including in the liver and brain and more abundant expression in the heart muscle and kidney is observed. Very small amounts of transcripts are detected in the intestine and colon.

Alternative names: MMGT1, Membrane magnesium transporter 1, ER membrane protein complex subunit 5, Transmembrane protein 32, Emc5, Tmem32

Gene ID: 302864

NCBI Accession: [NM_173470](#)

UniProt: [B5DF51](#)

Application Details

Application Notes: Antigen preadsorption control: 1 µg peptide per 1 µg antibody
Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A
Application Dilutions Western blot wb: 1:400

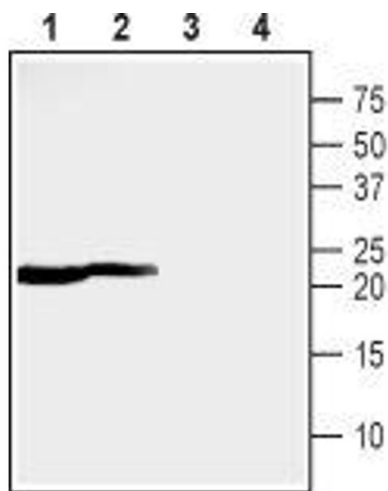
Comment: Negative Control: (ABIN7235948)
Blocking Peptide: (ABIN7235948)

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	0.2 mL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C,-20 °C
Storage Comment:	<p>Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.</p> <p>Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).</p>

Images



Western Blotting

Image 1. Western blot analysis of rat (lanes 1 and 3) and mouse (lanes 2 and 4) heart lysates: - 1,2. Anti-MMGT1 Antibody (ABIN7043329, ABIN7044853 and ABIN7044854), (1:400).3,4. Anti-MMGT1 Antibody, preincubated with MMGT1 Blocking Peptide (#BLP-NT149).