

## Datasheet for ABIN7043014 anti-CALHM1 antibody (Intracellular) (Atto 594)



Overview

Images

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Uverview		
Quantity:	50 µL	
Target:	CALHM1	
Binding Specificity:	AA 252-265, Intracellular	
Reactivity:	Human	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This CALHM1 antibody is conjugated to Atto 594	
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF), Immunochromatography (IC)	
Product Details		
Purpose:	A Rabbit Polyclonal Antibody to Calcium Homeostasis Modulator 1 Conjugated to the	
	Fluorescent Dye ATTO-594	
Immunogen:	Immunogen: Synthetic peptide	
	Immunogen Sequence: (C)EAMNHDLELGHTHG, corresponding to amino acid residues 252-265	
	of human CALHM1	
Isotype:	lgG	
Specificity:	Intracellular, C-terminus	
Cross-Reactivity:	Human, Mouse, Rat	
Predicted Reactivity:	Rat,mouse - identical	
Characteristics:	Anti-CALHM1 Antibody (ABIN7043013, ABIN7044044 and ABIN7044045)) is a highly specific	

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## Product Details

antibody directed against an epitope of the human calcium homeostasis modulator protein 1.
The antibody can be used in western blot and immunohistochemistry applications. It has been
designed to recognize CALHM1 from rat, mouse, and human samples. \nAnti-CALHM1-ATTO
Fluor-594 Antibody (#ABIN7043014) is directly labeled with an ATTO-594 fluorescent dye.
ATTO dyes are characterized by strong absorption (high extinction coefficient), high
fluorescence quantum yield, and high photo-stability. The ATTO-594 fluorescent label belongs
to the class of Rhodamine dyes and can be used with fluorescent equipment typically
optimized to detect Texas Red and Alexa-594. Anti-CALHM1-ATTO Fluor-594 Antibody has
been tested in immunohistochemistry applications and is especially suited for experiments
requiring simultaneous labeling of different markers.

Purification:

Affinity purified on immobilized antigen.

## Target Details

Target:	CALHM1
Alternative Name:	CALHM1 (CALHM1 Products)
Background:	Calcium homeostasis modulator 1, FAM26C,A misbalance in Ca2+ homeostasis seems to be
	related to the development of Alzheimer's disease (AD). Indeed Neuronal Ca2+ balance may
	affect the levels of proteins associated with AD, such as amyloid-beta (Ab) and tau1.Calcium
	homeostasis modulator 1 (CALHM1) is a cerebral Ca2+ channel component responsible for
	controlling intracellular Ca2+ levels and Ab metabolism2,3. CALHM1 is a three transmembrane
	glycoprotein, mostly localized to the endoplasmic reticulum (ER) although it can be detected at
	the plasma membrane. A functional channel is formed by multiple subunits which has some
	structural similarities to the NMDA receptor. It is expressed in all brain regions1.In cultured
	cells, overexpression of CALHM1 increases intracellular Ca2+ levels and reduces Ab
	accumulation, thereby reinforcing its implication in the development of AD. Indeed, a
	polymorphism in the gene was found to affect the onset of AD2.
	Alternative names: CALHM1, Calcium homeostasis modulator 1, FAM26C
Gene ID:	255022
NCBI Accession:	NM_001001412

UniProt:

Q8IU99

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Application Details		
Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody Application Dilutions Immunohistochemistry paraffin embedded sections ihc: 1:200 Application Dilutions Western blot wb: N/A	
Comment:	Negative Control: BLP-CC101 Blocking Peptide: BLP-CC101	
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	50 µL double distilled water (DDW).	
Concentration:	0.8 mg/mL	
Buffer:	PBS pH 7.4, 1 % BSA with 0.05 % sodium azide	
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,-20 °C	
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature.	

Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C, protected from the light, 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

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min).





**Image 1.** Multiplex staining of GluN1 and CALHM1 in mouse hippocampal CA1 region - Immunohistochemical staining of perfusion-fixed frozen mouse brain sections using Anti-NMDAR1 (GluN1) (extracellular) Antibody (ABIN7043242, ABIN7044322 and ABIN7044323), (1:200) and Anti-CALHM1-ATTO Fluor-594 Antibody (ABIN7043014), (1:60). A. Sections were stained with Anti-NMDAR1 (GluN1) (extracellular) Antibody, followed by goat-anti-rabbit-Cy2 (green). Staining reveals expression in neurons of the pyramidal layer (an arrow points at the layer). B. The same section was incubated with Anti-CALHM1-ATTO Fluor-594 Antibody, (red). C. Merge of the two images demonstrates colocalization of GluN1 and CALHM1 in pyramidal neurons.

## Immunohistochemistry

**Image 2.** Expression of CALHM1 in rat hippocampus -Immunohistochemical staining of rat hippocampus using Anti-CALHM1-ATTO Fluor-594 Antibody (ABIN7043014). A. Staining of CALHM1 appears only in the hippocampal CA1 pyramidal layer. B. Nuclear staining using DAPI as the counterstain. C. Merge of A and B.



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