

Datasheet for ABIN7043064

anti-CHRM4 antibody (3rd Intracellular Loop)**3** Images[Go to Product page](#)

Overview

Quantity:	50 µL
Target:	CHRM4
Binding Specificity:	3rd Intracellular Loop, AA 330-340
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CHRM4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C) RTLNPASKWSK, corresponding to amino acid residues 330-340 of rat M4 muscarinic receptor
Isotype:	IgG
Characteristics:	Anti-CHRM4 Antibody (ABIN7043064, ABIN7044584 and ABIN7044585)) is a highly specific antibody directed against an epitope of the rat M4 muscarinic receptor. The antibody can be used in western blot, immunocytochemistry, and immunohistochemistry applications. It has been designed to recognize M4 from rat, mouse, and human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

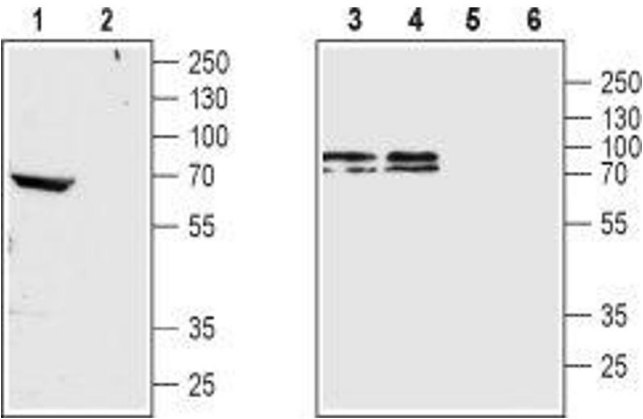
Target:	CHRM4
Alternative Name:	CHRM4 (CHRM4 Products)
Background:	Alternative names: M4 Muscarinic Receptor, CHRM4, Muscarinic acetylcholine receptor M4, Cholinergic receptor muscarinic 4, mAChR M4, HM4
Gene ID:	25111
NCBI Accession:	NM_000741
UniProt:	P08485
Pathways:	cAMP Metabolic Process , Inositol Metabolic Process , Synaptic Membrane

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

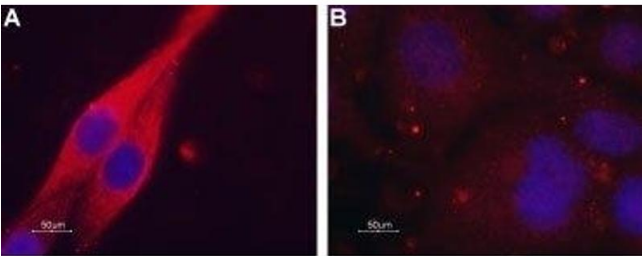
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.85 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 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:	RT, 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>



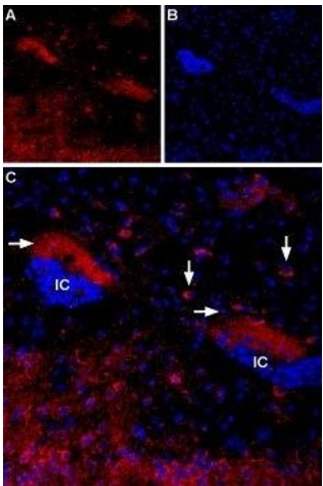
Western Blotting

Image 1. Western blot analysis of rat brain membrane (lanes 1 and 2), mouse brain membrane (lane 3 and 5) and SH-SY5Y cell lysate (lanes 4 and 6): - 1,3,4. Anti-CHRM4 Antibody (ABIN7043064, ABIN7044584 and ABIN7044585), (1:200).2,5,6. Anti-CHRM4 Antibody, preincubated with CHRM4 Blocking Peptide (#BLP-MR004).



Immunocytochemistry

Image 2. Expression of Muscarinic acetylcholine receptor M4 in C6 transfected cells - Immunocytochemical staining of paraformaldehyde-fixed and permeabilized C6 cells. A. Transfected cells were stained using Anti-CHRM4 Antibody (ABIN7043064, ABIN7044584 and ABIN7044585), (1:100) followed by goat anti-rabbit-AlexaFluor-594 secondary antibody (red). B. Non-transfected cells were stained using Anti-CHRM4 Antibody (1:100), followed by goat anti-rabbit-AlexaFluor-594 secondary antibody (red). DAPI is used as the counterstain (blue).



Immunohistochemistry

Image 3. Expression of Muscarinic acetylcholine receptor M4 in mouse islands of Calleja - Immunohistochemical staining of mouse islands of Calleja (ventral striatum) using Anti-CHRM4 Antibody (ABIN7043064, ABIN7044584 and ABIN7044585). A. M4 mAChR staining (red) appears in soma of neuronal profiles (vertical arrows) and a diffuse halo (horizontal arrows) in the vicinity of the islands of Calleja (IC). B. Nuclear staining using DAPI as the counterstain. C. Merged image of A and B.