

Datasheet for ABIN7602749
anti-CHRM1 antibody (C-Term)



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Overview

Quantity:	100 µg
Target:	CHRM1
Binding Specificity:	C-Term
Reactivity:	Rat, Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CHRM1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Muscarinic Acetylcholine Receptor 1/CHRM1 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Muscarinic Acetylcholine Receptor 1/CHRM1, identical to the related mouse and rat sequences.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Muscarinic Acetylcholine Receptor 1/CHRM1 Antibody (ABIN7602749). Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	CHRM1
Alternative Name:	CHRM1 (CHRM1 Products)
Background:	Synonyms: Muscarinic acetylcholine receptor M1, CHRM1 Tissue Specificity: Sperm. Mainly localized in the tail and in the postacrosomal region but is also found in the midpiece and basal region in a small percentage of sperm cells. Reduced levels found in the sperms of asthenozoospermia and leukocytospermia patients (at protein level). Spleen, lymph nodes, appendix, and fetal liver. Expressed in lymphocytes, T-cells and B-cells but not in natural killer cells, monocytes or granulocytes. Background: The muscarinic acetylcholine receptor M1, also known as the cholinergic receptor, muscarinic 1, is a muscarinic receptor that in humans is encoded by the CHRM1 gene. The muscarinic cholinergic receptors belong to a larger family of G protein-coupled receptors. The functional diversity of these receptors is defined by the binding of acetylcholine and includes cellular responses such as adenylate cyclase inhibition, phosphoinositide degeneration, and potassium channel mediation. Muscarinic receptors influence many effects of acetylcholine in the central and peripheral nervous system. The muscarinic cholinergic receptor 1 is involved in mediation of vagally-induced bronchoconstriction and in the acid secretion of the gastrointestinal tract. The gene encoding this receptor is localized to 11q13.
Molecular Weight:	55 kDa
Gene ID:	1128
UniProt:	P11229
Pathways:	Synaptic Membrane

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1×10⁶ cells, Human 1. Anagnostaras, S. G., Murphy, G. G., Hamilton, S. E., Mitchell, S. L., Rahnama, N. P., Nathanson, N. M., Silva, A. J. Selective cognitive dysfunction in acetylcholine M1 muscarinic receptor mutant mice. <i>Nature Neurosci.</i> 6: 51-58, 2003. 2. Bonner, T. I., Buckley, N. J., Young, A. C., Brann, M. R. Identification of a family of muscarinic acetylcholine receptor genes. <i>Science</i> 237: 527-532, 1987. Note: Erratum: <i>Science</i> 237: 1556 only, 1987. 3. Bonner, T. I., Modi, W. S., Seunanez, H. N., O'Brien, S. J. Chromosomal mapping of five human genes encoding muscarinic acetylcholine receptors. (Abstract) <i>Cytogenet. Cell Genet.</i> 58: 1850-1851, 1991.
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Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg NaN ₃ .
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:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.