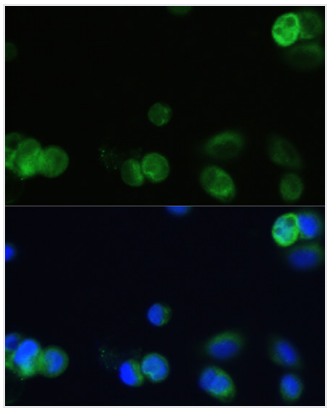
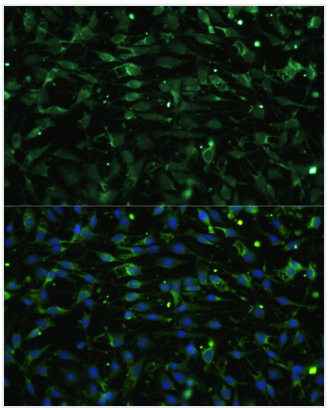
CHRM1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

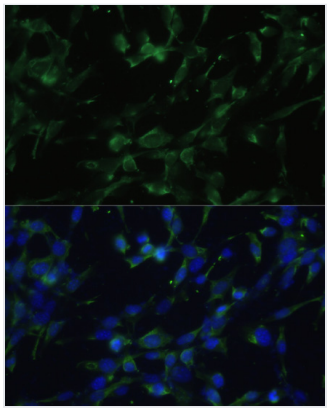
Product Name	CHRM1, Polyclonal Antibody
Full Product Name	CHRM1 Rabbit Polyclonal Antibody
Product Gene Name	anti-CHRM1 antibody
Product Synonym Names	CHRM1; HM1; M1; M1R
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	51,421 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (62676151..62689012, complement). Location: 11q13
OMIM	118510
3D Structure	ModBase 3D Structure for P11229
Immunogen	A synthetic peptide of human CHRM1.
Product Categories/Family for anti-CHRM1 antibody	Primary Antibody
Applications Tested/Suitable for anti-CHRM1 antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-CHRM1 antibody	WB: 1:500-1:2000 IF: 1:50-1:200
Related Product Information for anti-CHRM1 antibody	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.
Other Notes	Small volumes of anti-CHRM1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CHRM1 purchase	MBS9465499 is an antibody targeting CHRM1. Also known as CHRM1 Rabbit Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



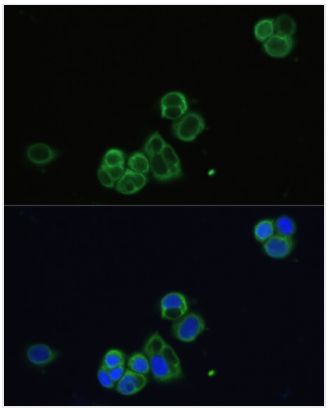
Immunofluorescence (IF) of anti-CHRM1 antibody
Immunofluorescence analysis of OVCAR-3 cells using CHRM1 at dilution of 1:100. Blue: DAPI for nuclear staining.



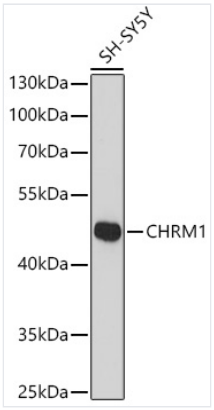
Immunofluorescence (IF) of anti-CHRM1 antibody
Immunofluorescence analysis of C6 cells using CHRM1 at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence (IF) of anti-CHRM1 antibody
Immunofluorescence analysis of NIH-3T3 cells using CHRM1 at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence (IF) of anti-CHRM1 antibody
Immunofluorescence analysis of OVCAR-3 cells using CHRM1 at dilution of 1:100. Blue: DAPI for nuclear staining.



Western Blot (WB) of anti-CHRM1 antibody
Western blot analysis of extracts of SH-SY5Y cells, using CHRM1 at 1:1000 dilution.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHRM1. It may not necessarily be applicable to this product.

NCBI GI #	37622910
NCBI GeneID	1128
NCBI Accession #	NP_000729.2
UniProt Primary Accession #	P11229
UniProt Related Accession #	P11229

GenBank Nucleotide #	NM_000738.2
NCBI Official Full Name	muscarinic acetylcholine receptor M1
NCBI Official Synonym Full Names	cholinergic receptor, muscarinic 1
NCBI Official Symbol	CHRM1
NCBI Official Synonym Symbols	M1; HM1; M1R
UniProt Protein Name	Muscarinic acetylcholine receptor M1
Protein Family	Muscarinic acetylcholine receptor
UniProt Gene Name	CHRM1
UniProt Entry Name	ACM1_HUMAN
NCBI Protein Information	muscarinic acetylcholine receptor M1; acetylcholine receptor, muscarinic 1
UniProt Comments for CHRM1	mAChR m1: The muscarinic acetylcholine receptor mediates various cellular responses, including inhibition of adenylate cyclase, breakdown of phosphoinositides and modulation of potassium channels through the action of G proteins. Primary transducing effect is Pi turnover. Belongs to the G-protein coupled receptor 1 family. Muscarinic acetylcholine receptor subfamily. CHRM1 sub-subfamily. Protein type: Membrane protein, multi-pass; Receptor, GPCR; GPCR, family 1; Membrane protein, integral Chromosomal Location of Human Ortholog: 11q13 Cellular Component: asymmetric synapse; postsynaptic membrane; membrane; integral to plasma membrane; dendrite; postsynaptic density; plasma membrane; nerve terminal; cell junction Molecular Function: drug binding; phosphoinositide phospholipase C activity; G-protein coupled acetylcholine receptor activity Biological Process: nervous system development; acetylcholine receptor signaling, muscarinic pathway; protein modification process; signal transduction; muscarinic acetylcholine receptor, phospholipase C activating pathway; regulation of locomotion; cell proliferation; G-protein coupled receptor protein signaling pathway; positive regulation of cell proliferation; protein kinase C activation; neuromuscular synaptic transmission; positive regulation of ion transport; cognition; saliva secretion
Research Articles on CHRM1	**1.** These data indicate that EGFR and PKC are involved in mAChR-mediated activation of ERK1/2 and RSK and the subsequent proliferation of SNU-407 colon cancer cells.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/chrm1/9465499