



Rabbit Anti-CHRM4 antibody

SL11998R

Product Name:	CHRM4
Chinese Name:	毒蕈碱型乙酰胆碱受体M4抗体
Alias:	mAChR M4; Muscarinic Acetylcholine Receptor M4; Cholinergic receptor muscarinic 4; Chrm 4; CHRM4; HM 4; HM4; M4; Muscarinic acetylcholine receptor M4; ACM4 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1μg/TestICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	53kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CHRM4/mAChR M4:1-31/479<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 clinical implications of this receptor are unknown; however, mouse studies link its function to adenylyl cyclase inhibition. [provided by RefSeq, Jul 2008]

Function:

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 to these receptors and includes cellular responses such as adenylate cyclase inhibition, phosphoinositide degeneration, and postassium channel mediation. Muscarinic receptors influence many effects of acetylcholine in the central and peripheral nervous system. The clinical implications of this receptor are unknown; however, mouse studies link its function to adenylyl cyclase inhibition. Muscarinic acetylcholine receptor M4 has been reported to be expressed in many regions of the rat brain, particularly the striatum and hippocampus.

Subcellular Location:

Cell membrane; Multi-pass membrane protein. Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein.

Similarity:

Belongs to the G-protein coupled receptor 1 family. Muscarinic acetylcholine receptor subfamily. CHRM4 sub-subfamily.

SWISS:

P08173

Gene ID:

1132

Database links:

[Entrez Gene: 1132](#) Human

[Entrez Gene: 12672](#) Mouse

[Entrez Gene: 25111](#) Rat

[Omim: 118495](#) Human

[SwissProt: P08173](#) Human

[SwissProt: P32211](#) Mouse

[SwissProt: P08485](#) Rat

[Unigene: 248100](#) Human

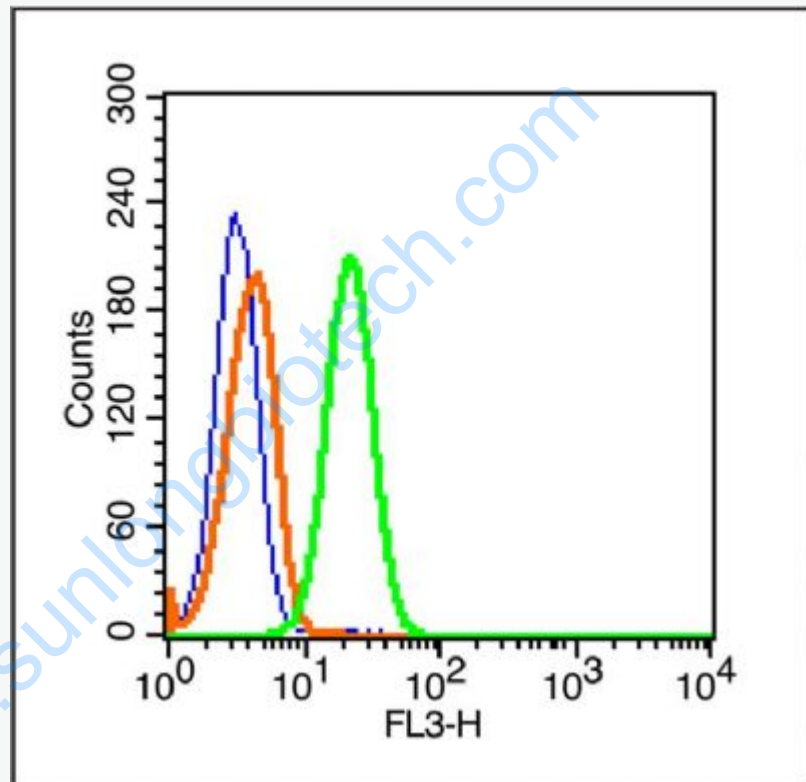
[Unigene: 330405](#) Mouse

[Unigene: 10676](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

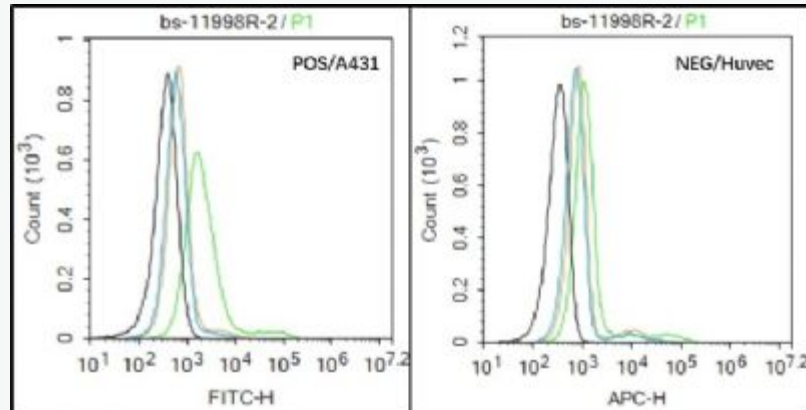
Picture:



Blank control (blue line): A431 cells(fixed with 70% ice-cold methanol overnight at 4°C).

Primary Antibody (green line): Rabbit Anti-CHRM4/PE-CY7 Conjugated antibody (SL11998R),Dilution: 1µg /10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG-PE-CY7 .



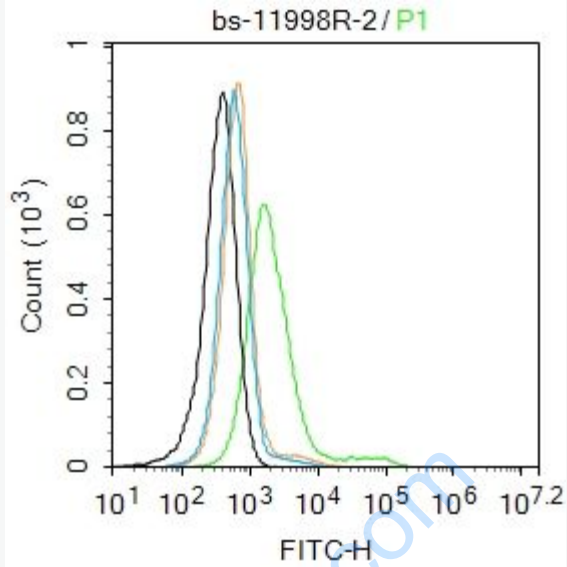
Black line : Positive blank control A431); Negative blank control (Huvec)

Green line : Primary Antibody (Rabbit Anti-CHRM4 antibody (SL11998R))

Orange line : Isotype Control Antibody (Rabbit IgG) .

Blue line : Secondary Antibody (Goat anti-rabbit IgG-AF488)

A431 (Positive) and HUVEC Negative control) cells (black) were incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with CHRM4 Antibody (SL11998R) at 1:50 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2% BSA in PBS, followed by secondary antibody (blue) incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).



Blank control: K562.

Primary Antibody (green line): Rabbit Anti-CHRM4 antibody (SL11998R)

Dilution: $2\mu\text{g} / 10^6$ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-AF488

Dilution: $1\mu\text{g} / \text{test}$.

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.