SunLong Biotech Co.,LTD
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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; HM4; M4; Muscarinic acetylcholine receptor M4; ACM4_HUMAN.
Research Area	Cell biology Neurobiology Signal transduction The cell membrane 受体 G protein-coupled rece signal
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human(predicted:Mouse,Rat)
Applications	Flow-Cyt=1μg/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	53kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human CHRM4/mAChR M4: 1-31/479 <Extrac
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or d applications.
PubMed	PubMed
Product Detail	The muscarinic cholinergic receptors belong to a larger family of G protein-coupled receptors. T diversity of these receptors is defined by the binding of acetylcholine and includes cellular respo

adenylate cyclase inhibition, phosphoinositide degeneration, and potassium channel mediation. M
receptors influence many effects of acetylcholine in the central and peripheral nervous system. T
implications of this receptor are unknown; however, mouse studies link its function to adenylyl cy
[provided by RefSeq, Jul 2008]

Function:
The muscarinic cholinergic receptors belong to a larger family of G protein-coupled receptors. T
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mediation. Muscarinic receptors influence many effects of acetylcholine in the central and peripl
system. The clinical implications of this receptor are unknown; however, mouse studies link its f
adenylyl cyclase inhibition. Muscarinic acetylcholine receptor M4 has been reported to be expre
regions of the rat brain, particularly the striatum and hippocampus.

Subcellular Location:
Cell membrane; Multi-pass membrane protein. Cell junction, synapse, postsynaptic cell membra
membrane protein.

Similarity:
Belongs to the G-protein coupled receptor 1 family. Muscarinic acetylcholine receptor subfamily
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

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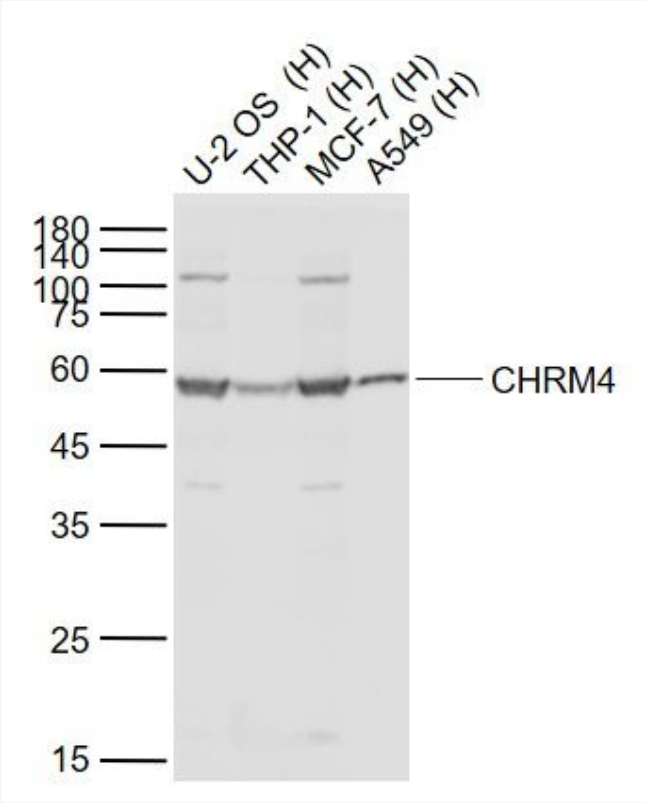
Unigene: 248100 Human

Unigene: 330405 Mouse

Unigene: 10676 Rat

Product Picture



Sample:

Lane 1: Human U-2 OS cell lysates

Lane 2: Human THP-1 cell lysates

Lane 3: Human MCF-7 cell lysates

Lane 4: Human A549 cell lysates

Primary: Anti-CHRM4 (SL11998R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

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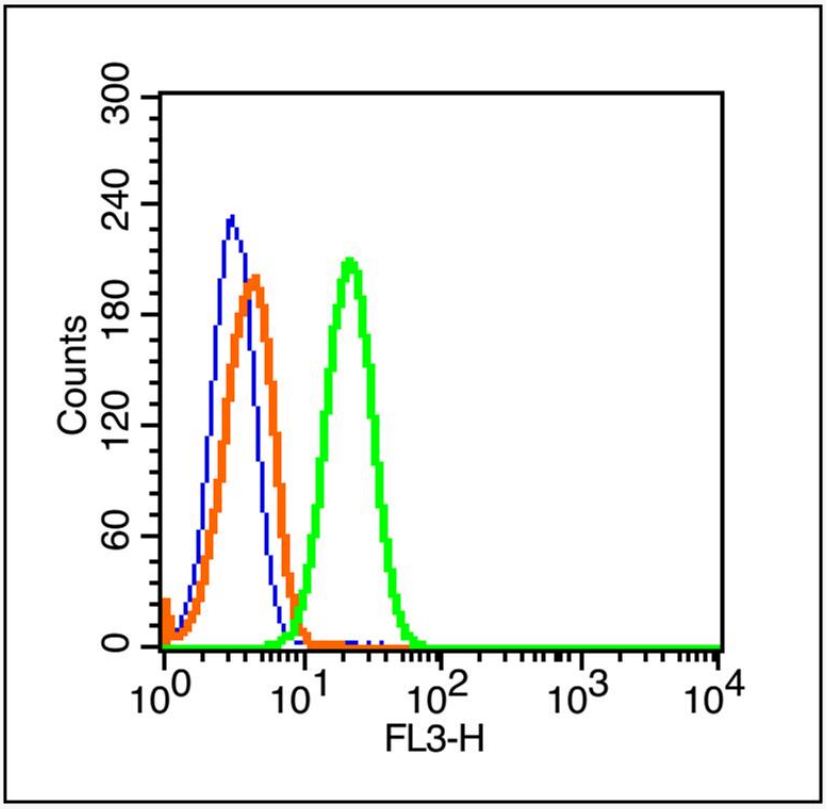
Predicted band size: 53 kD

Observed band size: 55 kD



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-PE-CY7),Dilution: 1μg /10^6 cells;

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

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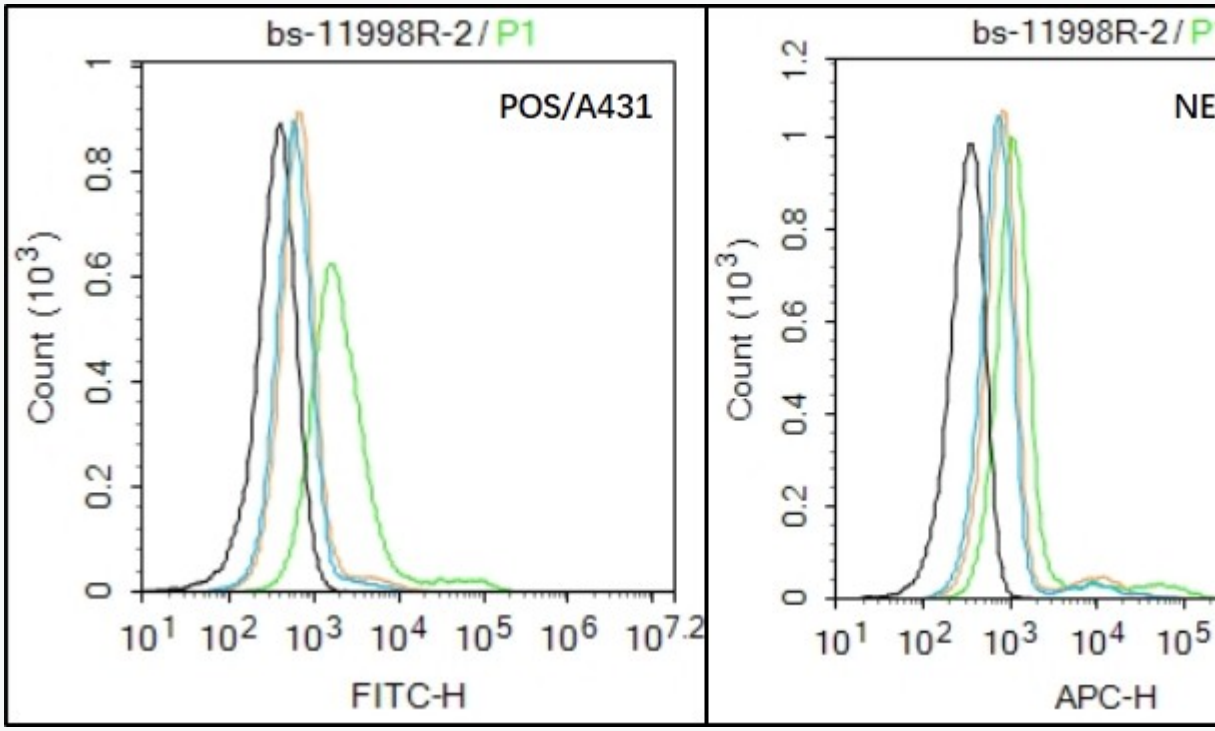

Black line : Positive blank control A431); Negative blank control (Huvec）

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 bl

30 min at room temperature. Cells were then stained with CHRM4 Antibody(SL11998R)at 1:

blocking buffer and incubated for 30 min at room temperature, washed twice with 2% BSA in

by secondary antibody(blue) incubation for 40 min at room temperature. Acquisitions of 20,0

performed. Cells stained with primary antibody (green), and isotype control (orange).

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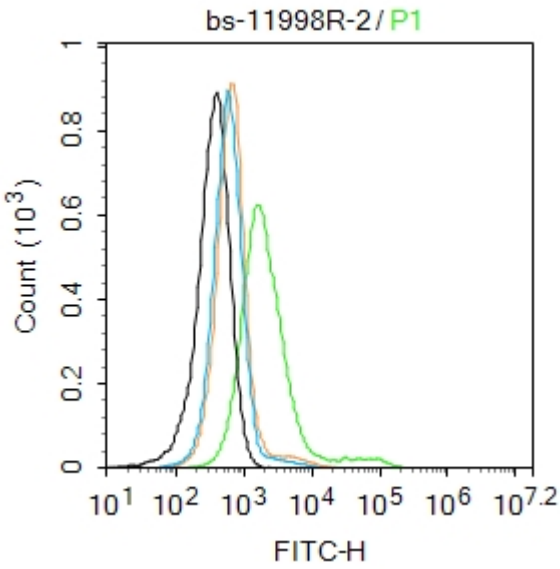

Blank control: K562.

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

Dilution: 2µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-AF488

Dilution: 1µg /test.

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 r

temperature .Cells stained with Primary Antibody for 30 min at room temperature. The second

used for 40 min at room temperature. Acquisition of 20,000 events was performed.