



Rabbit Anti-ChRM2 antibody

SL0236R

Product Name:	ChRM2
Chinese Name:	毒蕈碱型乙酰胆碱受体抗体
Alias:	7TM receptor; Acetylcholine receptor, muscarinic, 2; Acm2; Cholinergic receptor muscarinic 2; Cholinergic receptor, muscarinic 2, cardiac; Cholinergic receptor, muscarinic 2, isoform a; Cholinergic receptor, muscarinic 2a; Cholinergic receptor, muscarinic 2, isoform a; CHRM 2; CHRM2; chrm2a; CM2; FLJ43243; HM 2; HM2; M2; M2 muscarinic receptor; MGC120006; MGC120007; ACM2_HUMAN; Muscarinic acetylcholine receptor M2; Muscarinic M2 receptor; Acetylcholine receptor(M2).
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Pig,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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:	52kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ChRM2:381-466/466<Cytoplasmic>
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

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 degradation, and potassium channel mediation. Muscarinic receptors influence many effects of acetylcholine in the central and peripheral nervous system. The muscarinic cholinergic receptor 2 is involved in mediation of bradycardia and a decrease in cardiac contractility. Multiple alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Jul 2008]

Function:

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 adenylate cyclase inhibition.

Subunit:

Interacts with ARRB1 and ARRB2. Interacts with GNB2L1/RACK1; the interaction regulates CHRM2 internalization.

Subcellular Location:

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

DISEASE:

Genetic variations in CHRM2 can influence susceptibility to major depressive disorder (MDD) [MIM:608516]. MDD is one of the most common psychiatric disorders. MDD is a complex trait characterized by one or more major depressive episodes without a history of manic, mixed, or hypomanic episodes. A major depressive episode is characterized by at least 2 weeks during which there is a new onset or clear worsening of either depressed mood or loss of interest or pleasure in nearly all activities. Four additional symptoms must also be present including changes in appetite, weight, sleep, and psychomotor activity; decreased energy; feelings of worthlessness or guilt; difficulty thinking, concentrating, or making decisions; or recurrent thoughts of death or suicidal ideation, plans, or attempts. The episode must be accompanied by distress or impairment in social, occupational, or other important areas of functioning.

Similarity:

Belongs to the G-protein coupled receptor 1 family. Muscarinic acetylcholine receptor subfamily. CHRM2 sub-subfamily.

SWISS:

P08172

Gene ID:

1129

Product Detail:

Database links:

[Entrez Gene: 1129](#)Human

[Entrez Gene: 243764](#)Mouse

[Entrez Gene: 397498](#)Pig

[Entrez Gene: 81645](#)Rat

[Omim: 118493](#)Human

[SwissProt: P08172](#)Human

[SwissProt: Q9ERZ4](#)Mouse

[SwissProt: P06199](#)Pig

[SwissProt: P10980](#)Rat

[Unigene: 535891](#)Human

[Unigene: 448632](#)Mouse

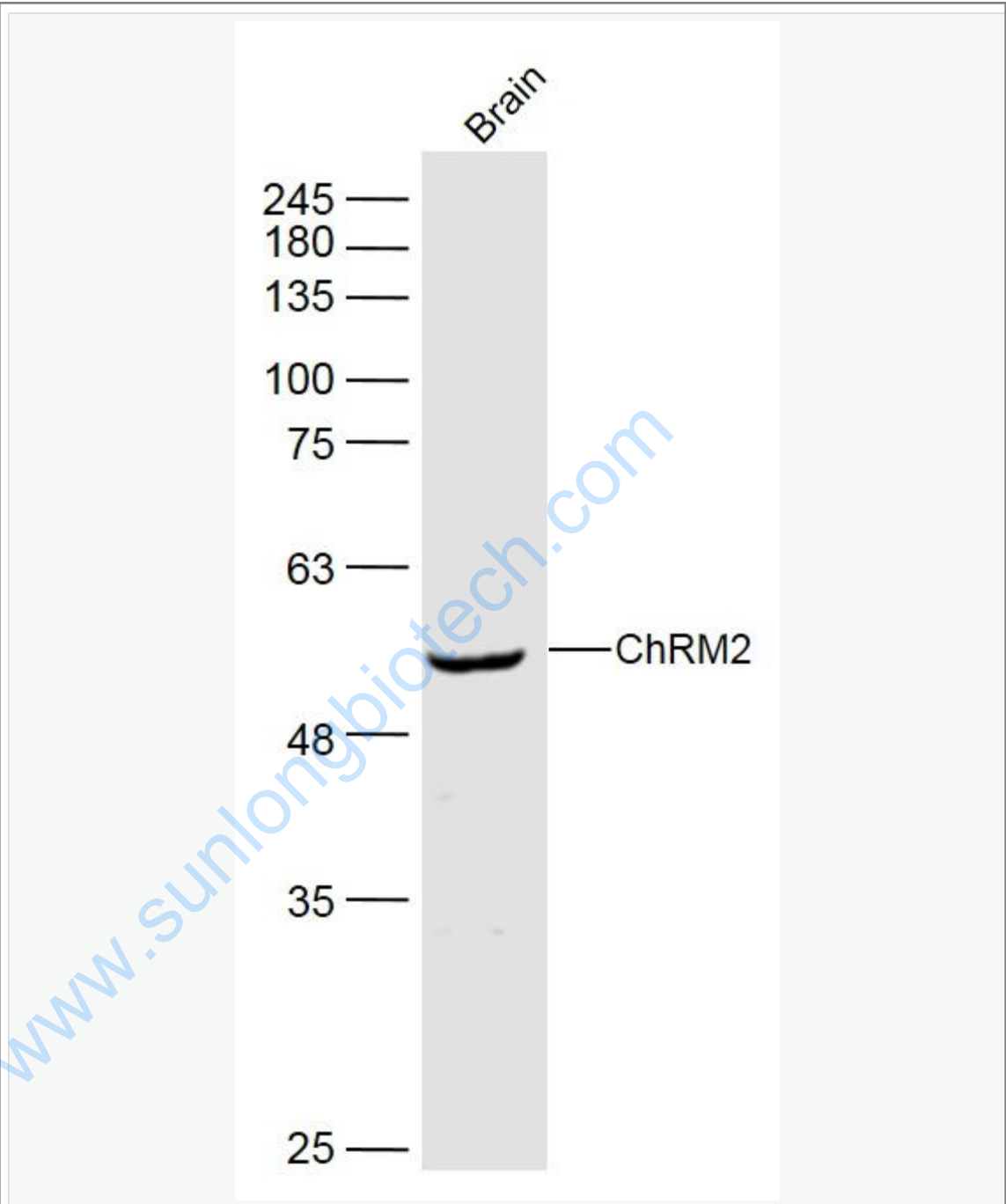
[Unigene: 10752](#)Rat

[Unigene: 200974](#)Rat

Important Note:

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

Picture:



ample:

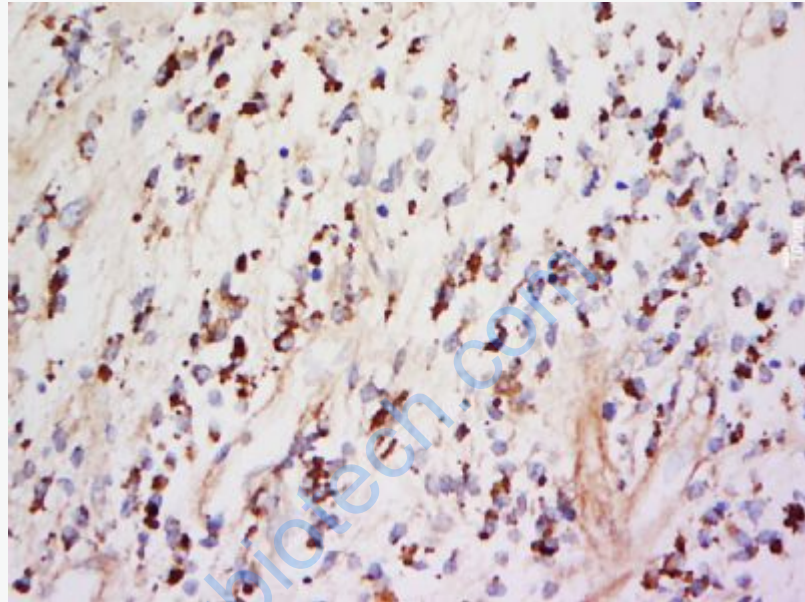
Brain (Mouse) Lysate at 40 ug

Primary: Anti-ChRM2 (SL0236R) at 1/300 dilution

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

Predicted band size: 52 kD

Observed band size: 52 kD



Tissue/cell: schwannoma; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block
endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer
(normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-ChRM2 Polyclonal Antibody, Unconjugated(SL0236R) 1:500,
overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and
DAB(C-0010) staining