SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

# 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; chrm2a; CM2; FLJ43243; HM 2; HM2; M2; M2 muscarinic receptor; MGC120006; MGC120007; ACM2_HUMAN; Muscarinic acetylcholine receptor M2; Muscarinic M2 receptor; Acetylcholine receptor(M2). |
| **Research Area** | Neurobiology The cell membrane 受体 |
| **Immunogen Species** | Rabbit |
| **Clonality** | Polyclonal |
| **React Species** | Human, Mouse, Rat, (predicted: Chicken, Pig, ) |
| **Applications** | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Theoretical molecular weight** | 52kDa |
| **Cellular localization** | The cell membrane |
| **Form** | 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 |
| **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 diagnostic applications.

**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 degeneration, 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.

**Product Detail**

**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

**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

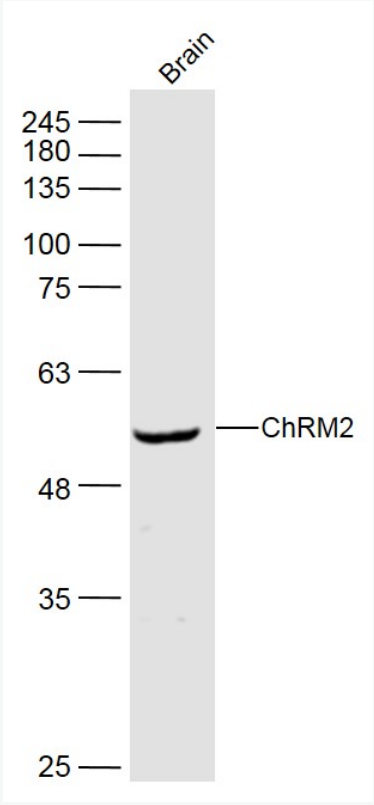
Unigene: 448632 Mouse

Unigene: 10752 Rat

Unigene: 200974 Rat

SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

**Product Picture**




ample:

Brain (Mouse) Lysate at 40 ug

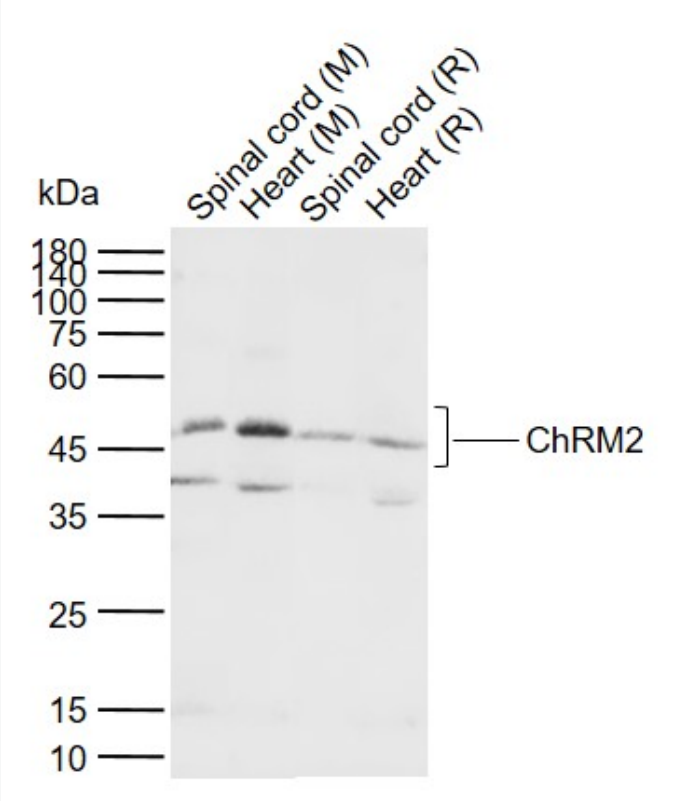
Primary: Anti-ChRM2 (SL0236R) at 1/300 dilution

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

Predicted band size: 52 kD

Observed band size: 52 kD

SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com




Sample:

Lane 1: Mouse Spinal cord tissue lysates

Lane 2: Mouse Heart tissue lysates

Lane 3: Rat Spinal cord tissue lysates

Lane 4: Rat Heart tissue lysates

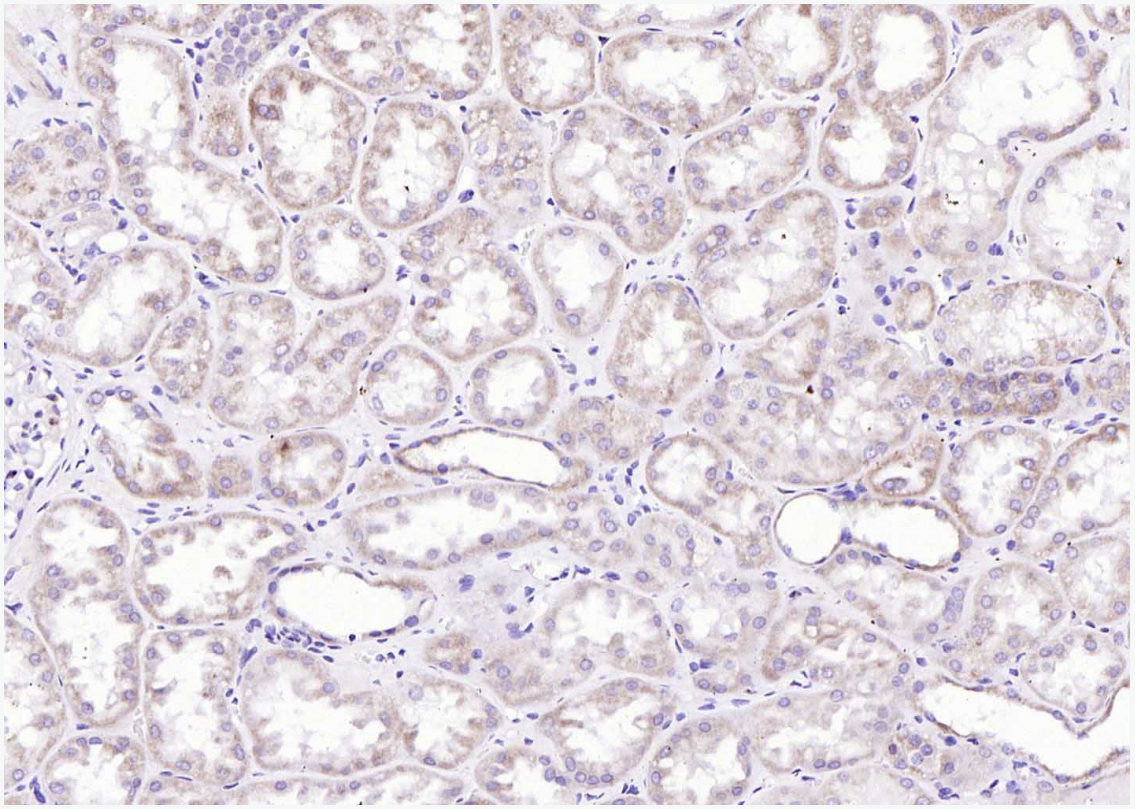
Primary: Anti- ChRM2 (SL0236R) at 1/1000 dilution

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

Predicted band size: 52 kDa

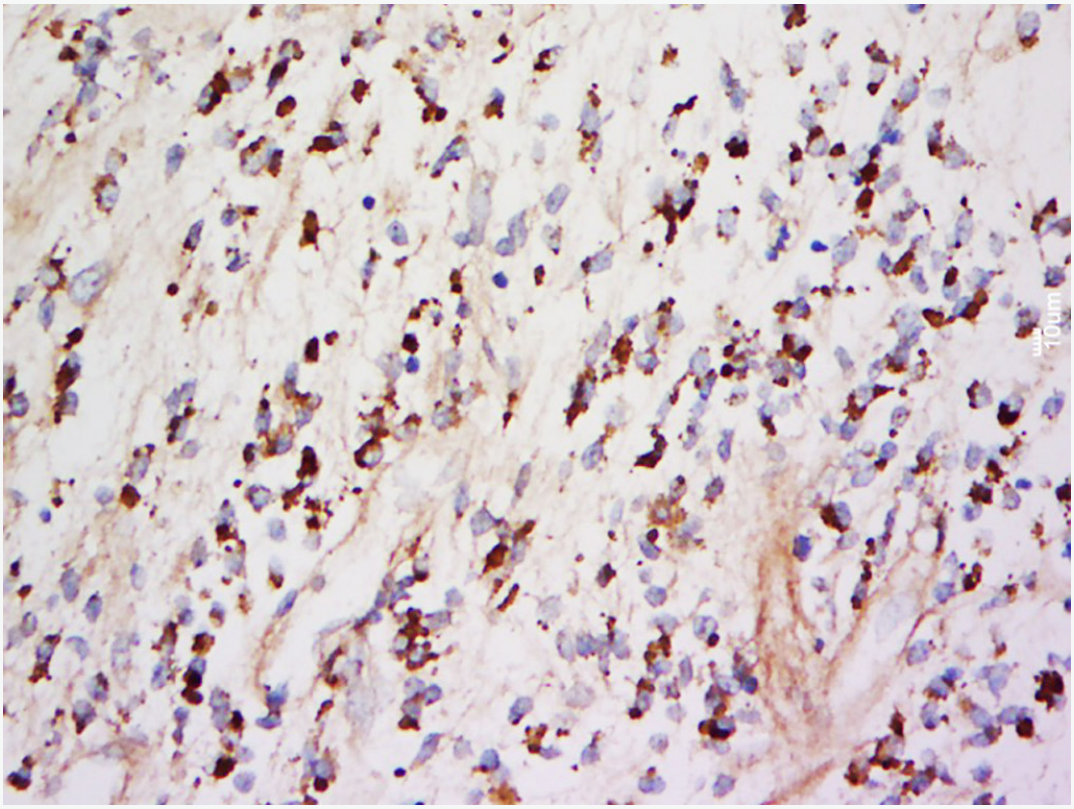
Observed band size: 47 kDa

SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com



Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ChRM2) Polyclonal Antibody, Unconjugated (SL0236R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com



Tissue/cell: schwannoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 1M, 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℃ 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