

Anti-MRGX1 Antibody
Catalog # ABO10590**Specification**

Anti-MRGX1 Antibody - Product Information

Application	WB, IHC-P
Primary Accession	Q8R4G1
Host	Rabbit
Reactivity	Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Mas-related G-protein coupled receptor member X1(MRGPRX1) detection. Tested with WB, IHC-P in Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-MRGX1 Antibody - Additional Information

Gene ID 282547

Other Names

Mas-related G-protein coupled receptor member X1, Sensory neuron-specific G-protein coupled receptor 1, Mrgprx1, Mrgc, Mrgprc, Mrgprc11, Snsr, Snsr1

Calculated MW

37074 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Rat

Subcellular Localization

Cell membrane; Multi-pass membrane protein.

Tissue Specificity

Uniquely localized in a subset of small dorsal root and trigeminal sensory neurons. Associated preferentially with IB4 class of small-diameter somatosensory afferents (also known as nociceptors). .

Protein Name

Mas-related G-protein coupled receptor member X1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of rat MRGX1(14-28aa

TLNKTGHPSCRPILT).

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the G-protein coupled receptor 1 family. Mas subfamily.

Anti-MRGX1 Antibody - Protein Information

Name Mrgprx1

Synonyms Mrgc, Mrgprc, Mrgprc11, Snsr, Snsr1

Function

Orphan receptor activated by neuropeptides terminating in Arg-Phe or Arg-Phe-amide. Mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system. Its effect is mediated by G(q) and G(11) proteins. May regulate the function of nociceptive neurons by modulation of pain perception (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein.

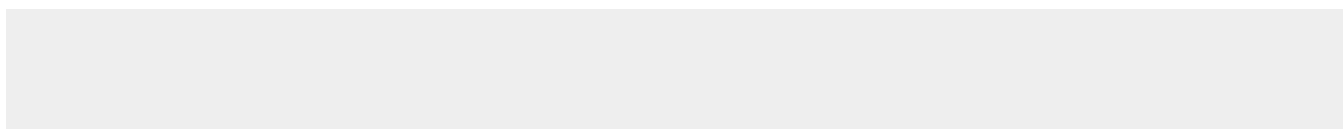
Tissue Location

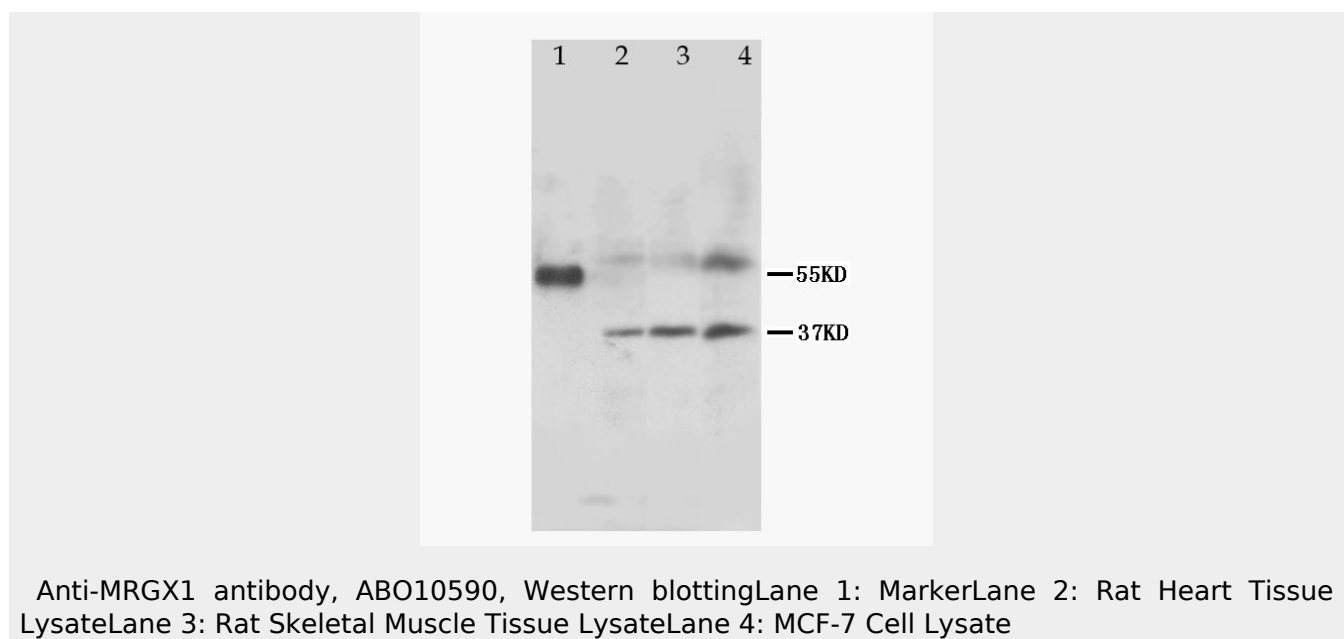
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Anti-MRGX1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-MRGX1 Antibody - Images

**Anti-MRGX1 Antibody - Background**

MAS-related G-protein coupled receptor, member C, also known as MRGPC or MRGPRX1, is a human gene. The Mas-related genes(Mrgs) comprise a family of >50 G protein-coupled receptors(GPCRs), many of which are expressed in specific subsets of nociceptive sensory neurons in mice. In contrast, humans contain a related but nonorthologous family of genes, called MrgXs or sensory neuron-specific receptors, of which many fewer appear to be expressed in sensory neurons.