

Anti-MRGX1 Antibody

Catalog # ABO10590

Specification

Anti-MRGX1 Antibody - Product Information

ApplicationWB, IHC-PPrimary AccessionQ8R4G1HostRabbitReactivityRatClonalityPolyclonalFormatLyophilizedDescriptionRas-related G-protein coupled receptor

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 r°Constitution, 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

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).

Anti-MRGX1 Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- <u>Dot Blot</u>
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-MRGX1 Antibody - Images





Anti-MRGX1 antibody, ABO10590, Western blottingLane 1: MarkerLane 2: Rat Heart Tissue LysateLane 3: Rat Skeletal Muscle Tissue LysateLane 4: MCF-7 Cell Lysate

Anti-MRGX1 Antibody - Background

MAS-related G-protein coupled receptor, member C, also known as MRGPRC 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.