

**MRGPRX2 / MRGX2 Antibody (C-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS10581****Specification**

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**MRGPRX2 / MRGX2 Antibody (C-Terminus) - Product Information**

Application	IHC
Primary Accession	<a href="#">Q96LB1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37kDa KDa

**MRGPRX2 / MRGX2 Antibody (C-Terminus) - Additional Information****Gene ID** 117194**Other Names**

Mas-related G-protein coupled receptor member X2, MRGPRX2, MRGX2

**Target/Specificity**

Human MRGPRX2 / MRGX2. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

**Reconstitution & Storage**

Long term: -70°C; Short term: +4°C

**Precautions**

MRGPRX2 / MRGX2 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**MRGPRX2 / MRGX2 Antibody (C-Terminus) - Protein Information****Name** MRGPRX2**Synonyms** MRGX2**Function**

Mast cell-specific receptor for basic secretagogues, i.e. cationic amphiphilic drugs, as well as endo- or exogenous peptides, consisting of a basic head group and a hydrophobic core (PubMed:<a href="http://www.uniprot.org/citations/25517090" target="\_blank">25517090</a>). Recognizes and binds small molecules containing a cyclized tetrahydroisoquinoline (THIQ), such as non-steroidal neuromuscular blocking drugs (NMBDs), including tubocurarine and atracurium. In response to these compounds, mediates pseudo-allergic reactions characterized by histamine release, inflammation and airway contraction (By similarity). Acts as a receptor for a number of other ligands, including peptides and alkaloids, such as cortistatin-14, proadrenomedullin N-terminal peptides PAMP-12 and, at lower extent, PAMP-20, antibacterial protein LL-37, PMX-53 peptide, beta-defensins, and complanadine A.

**Cellular Location**

Cell membrane; Multi-pass membrane protein

**Tissue Location**

Mainly expressed in mast cells. Has a limited expression profile, both peripheral and within the central nervous system, with highest levels in dorsal root ganglion (PubMed:12915402) Detected in blood vessels, scattered lymphocytes, and gastrointestinal ganglia (at protein level) (PubMed:16161007)

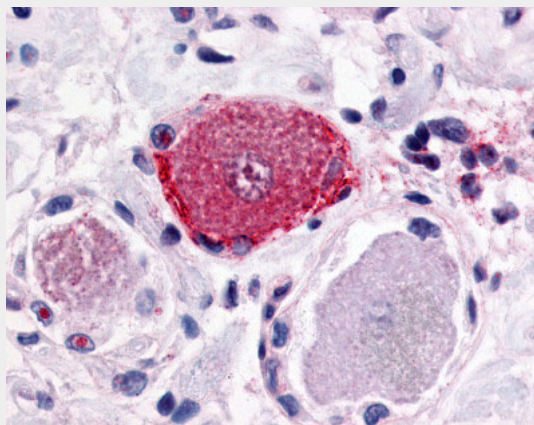
**Volume**

50 µl

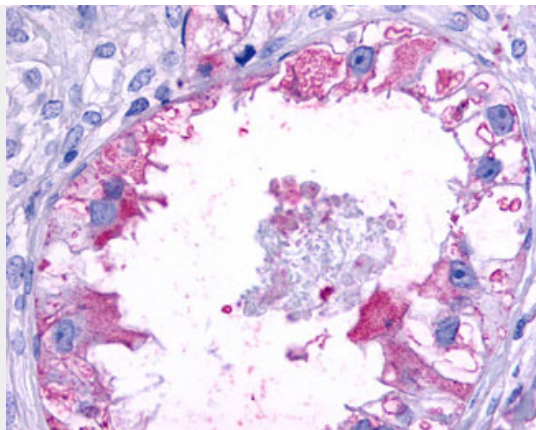
**MRGPRX2 / MRGX2 Antibody (C-Terminus) - Protocols**

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](#)

**MRGPRX2 / MRGX2 Antibody (C-Terminus) - Images**

Anti-MRGPRX2 / MRGX2 antibody ALS10581 IHC of human spinal cord, dorsal root ganglion.



Anti-MRGPRX2 / MRGX2 antibody IHC of human Ovary, Carcinoma.

#### **MRGPRX2 / MRGX2 Antibody (C-Terminus) - Background**

Orphan receptor. Probably involved in the function of nociceptive neurons. May regulate nociceptor function and/or development, including the sensation or modulation of pain. Cortistatin-14 seems to be a high potency ligand at this receptor. Cortistatin has several biological functions including roles in sleep regulation locomotor activity, and cortical function. In receptor-expressing cells, cortistatin-stimulated increases in intracellular  $Ca^{2+}$  but had no effect on basal or forskolin- stimulated cAMP levels, suggesting that this receptor is  $G(q)$ - coupled.

#### **MRGPRX2 / MRGX2 Antibody (C-Terminus) - References**

- Dong X.,et al.Cell 106:619-632(2001).
- Takeda S.,et al.FEBS Lett. 520:97-101(2002).
- Suwa M.,et al.Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
- Yang S.,et al.Gene 352:30-35(2005).
- Martin A.L.,et al.Submitted (JUL-2008) to the EMBL/GenBank/DDBJ databases.