

**MRGPRX2 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16522b**

**Specification**

---

**MRGPRX2 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O96LB1</a>
Other Accession	<a href="#">NP_473371.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	37099
Antigen Region	287-315

**MRGPRX2 Antibody (C-term) - Additional Information**

**Gene ID** 117194

**Other Names**

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

**Target/Specificity**

This MRGPRX2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 287-315 amino acids from the C-terminal region of human MRGPRX2.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

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

**MRGPRX2 Antibody (C-term) - 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:25517090). 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

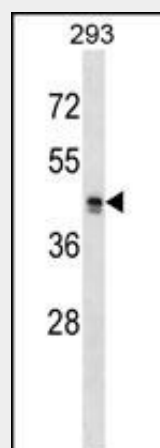
Mainly expressed in mast cells. Has a limited expression profile, both peripheral and within the central nervous system, with highest levels in dorsal root ganglion (PubMed:12915402) Detected in blood vessels, scattered lymphocytes, and gastrointestinal ganglia (at protein level) (PubMed:16161007)

### MRGPRX2 Antibody (C-term) - 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 Antibody (C-term) - Images



MRGPRX2 Antibody (C-term) (Cat. #AP16522b) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the MRGPRX2 antibody detected the MRGPRX2 protein (arrow).

### MRGPRX2 Antibody (C-term) - Background

MRGPRX2 is the 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 Antibody (C-term) - References**

Gembardt, F., et al. Mol. Cell. Biochem. 319 (1-2), 115-123 (2008) :  
Yang, S., et al. Gene 352, 30-35 (2005) :  
Robas, N., et al. J. Biol. Chem. 278(45):44400-44404(2003)  
Takeda, S., et al. FEBS Lett. 520 (1-3), 97-101 (2002) :  
Dong, X., et al. Cell 106(5):619-632(2001)