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MRGPRX2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16522b

Specification

MRGPRX2 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q96LB1
Other Accession	NP_473371.1
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
E~~Use at an assay dependent concentration.

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

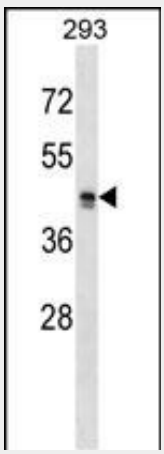
Tissue Location
Mainly expressed in mast cells. Has a limited expression profile, both peripheral and within the central nervous system, with highest levels in dorsal root ganglion (PubMed:12915402) Detected in blood vessels, scattered lymphocytes, and gastrointestinal ganglia (at protein level) (PubMed:16161007)

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 Cytomety
- 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)