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MRGPRX4 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20392b

Product Information

Application	WB, E
Primary Accession	Q96LA9
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB42906
Calculated MW	36461
Antigen Region	278-304

Additional Information

Gene ID	117196
Other Names	Mas-related G-protein coupled receptor member X4, Sensory neuron-specific G-protein coupled receptor 5/6, MRGPRX4, MRGX4, SNSR5, SNSR6
Target/Specificity	This MRGPRX4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 278-304 amino acids from the C-terminal region of human MRGPRX4.
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	MRGPRX4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MRGPRX4
Function	G protein-coupled receptor for bile acids, which is specifically expressed in sensory neurons of dorsal root ganglion and is involved in itch perception (PubMed:31068464, PubMed:31500698, PubMed:34789874, PubMed:38718132, PubMed:39476841). Activated by bile acids, such as

deoxycholate, chenodeoxycholate, taurocholate, taurodeoxycholate and taurodeoxycholate (PubMed:31068464, PubMed:31500698, PubMed:39476841). Has a preference for 3-sulfated bile acids, such as deoxycholate 3-sulfate, glycoursodeoxycholate 3-sulfate and tauroursodeoxycholate 3-sulfate, which are present at high level in cholestatic patients with itch symptoms (PubMed:39476841). Bile acid- binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors (PubMed:30768591, PubMed:31068464, PubMed:31500698, PubMed:34789874, PubMed:38718132, PubMed:39476841). MRGPRX4 is coupled to G(q)/G(11) G alpha proteins and activates phospholipase C-beta, releasing diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) second messengers that modulate the activity of phosphatidylinositol 3-kinase and promote the release of Ca2+ ions from intracellular stores, respectively (PubMed:30768591, PubMed:31068464, PubMed:31500698, PubMed:34789874, PubMed:38718132, PubMed:39476841).

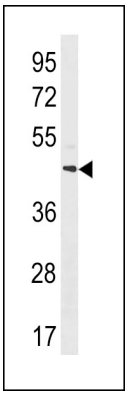
Cellular Location Cell membrane; Multi-pass membrane protein

Tissue Location Uniquely localized in a subset of small dorsal root and trigeminal sensory neurons.

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. Potently activated by enkephalins (By similarity).

Images



MRGPRX4 Antibody (C-term) (Cat. #AP20392b) western blot analysis in human Uterus tissue lysates (35ug/lane).This demonstrates the MRGPRX4 antibody detected the MRGPRX4 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.