SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-GPCR MRGX2 antibody

Catalog Number: SL15370R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	GPCR MRGX2
Immunogen:	KLH conjugated synthetic peptide derived from human GPCR MRGX2 : 1-100/330 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human)
Predicted MW.:	37kDa
Subcellular Location:	The cell membrane
Background:	Mas-related G protein-coupled receptor member X1 (MRGX) is a sensory neuron-specific G protein-coupled receptor that is involved in the development and function of nociceptive neurons and may also regulate the sensation or modulation of pain. MRGPRX2, is a 330 amino acid multi-pass membrane protein that functions as an orphan receptor and, like MRGX, is thought to be involved in the function of nociceptive neurons. Expressed in the central nervous system with highest expression in dorsal root ganglia, MRGX2 may also be involved in cortistatin function, possibly playing a role in sleep regulation and cortical function. **Function:** Orphan receptor. Probably involved in the function of nociceptive

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	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. **Subcellular Location:** Cell membrane; Multi-pass membrane protein. **Tissue Specificity:** Has a limited expression profile, both peripheral and within the central nervous system, with highest levels in dorsal root ganglion. **Similarity:** Belongs to the G-protein coupled receptor 1 family. Mas subfamily. **Database links:** **Entrez Gene:** 117194 Human Omim: 607228 Human **SwissProt:** Q96LB1 Human **Unigene:** 350566 Human

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