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MRGPRE antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14899

Product Information

Application	WB
Primary Accession	Q86SM8
Other Accession	NM_001039165, NP_001034254
Reactivity	Human, Rat
Predicted	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34286

Additional Information

Gene ID	116534
Alias Symbol	GPR167, MGC138408, MRGE
Other Names	Mas-related G-protein coupled receptor member E, G-protein coupled receptor 167, MRGPRE, GPR167, MRGE
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-MRGPRE antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	MRGPRE antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MRGPRE {ECO:0000303|PubMed:40446798, ECO:0000312|HGNC:HGNC:30694}
Function	G protein-coupled receptor for L-tryptophanocholate (Trp-CA), an amino-acid-conjugated bile acid produced by the microbiome, which regulates glucose homeostasis (PubMed:40446798). Expressed in enteroendocrine L cells of the gut epithelium: Trp-CA binding causes a conformation change that triggers signaling via G(s) G protein, mediating activation of adenylate cyclase activity (PubMed:40446798). In addition to G(s), MRGPRE also associates with beta-arrestin-1 (ARRB1), promoting phosphorylation of ALDOA (PubMed:40446798). Both G(s) and beta-arrestin-1 signaling pathways improves glucose tolerance by enhancing GLP-1 secretion

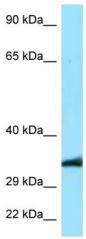
(PubMed:40446798).

Cellular Location Cell membrane; Multi-pass membrane protein

References

Vassilatis D.K.,et al.Proc. Natl. Acad. Sci. U.S.A. 100:4903-4908(2003).

Images



WB Suggested Anti-MRGPRE Antibody Titration: 1.0 µg/ml
Positive Control: A549 Whole Cell

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