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MRGE Polyclonal Antibody

Catalog # AP71015

Product Information

Application	WB, E, IHC-P
Primary Accession	Q86SM8
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34286

Additional Information

Gene ID	116534
Other Names	MRGPRE; GPR167; MRGE; Mas-related G-protein coupled receptor member E; G-protein coupled receptor 167
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications. E~~N/A IHC-P~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

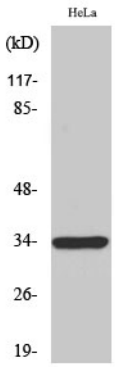
Protein Information

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

Background

Orphan receptor. May regulate nociceptor function and/or development, including the sensation or modulation of pain.

Images



Western Blot analysis of various cells using MRGE Polyclonal Antibody

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