

GPR155 Rabbit pAb

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Catalog # AP55971

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q7Z3F1
Predicted	Rat, Human, Mouse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	96919
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GPR155
Epitope Specificity	701-800/870
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Multi-pass membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	G protein-coupled receptors (GPRs), also known as seven transmembrane receptors, heptahelical receptors or 7TM receptors, comprise a superfamily of proteins that play a role in many different stimulus-response pathways. G protein coupled receptors translate extracellular signals into intracellular signals (G protein activation) and they respond to a variety of signaling molecules, such as hormones and neurotransmitters. GPR155 (G protein-coupled receptor 155), also known as DEP.7, PGR22 or DEPDC3, is an 870 amino acid multi-pass membrane protein that contains one DEP domain. The gene encoding GPR155 maps to human chromosome 2, which consists of 237 million bases, encodes over 1,400 genes and makes up approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2 including Harlequin ichthyosis, sitosterolemia and Alström syndrome.

Additional Information

Gene ID	151556
Other Names	Lysosomal cholesterol signaling protein, LYCHOS, G-protein coupled receptor PGR22, GPR155 (HGNC:22951)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GPR155 (HGNC:22951)
Function	Cholesterol-binding protein that acts as a regulator of mTORC1 signaling pathway (PubMed: 36007018). Acts as a sensor of cholesterol to signal cholesterol sufficiency to mTORC1: in presence of cholesterol, binds cholesterol, leading to disruption of the interaction between the GATOR1 and KICSTOR complexes and promotion of mTORC1 signaling (PubMed: 36007018 , PubMed: 39358511). Upon cholesterol starvation, GPR155/LYCHOS is unable to perturb the association between GATOR1 and KICSTOR, leading to mTORC1 signaling inhibition (PubMed: 36007018). Binds indole-3-acetic acid and may play a role in tryptophan metabolism (PubMed: 39358511).
Cellular Location	Lysosome membrane; Multi-pass membrane protein

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