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GPRC5B Rabbit pAb

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Catalog # AP54708

Product Information

Primary Accession	Q9NZH0
Reactivity	Mouse
Predicted	Rat, Pig, Dog, Human, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44795
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human G protein coupled receptor family C group 1 member B
Epitope Specificity	1-100/403
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	Cell membrane. Cytoplasmic vesicle membrane. Localized in the plasma membrane and perinuclear vesicles.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	GPRC5B (G protein-coupled receptor family C group 5 member B, retinoic acid-induced gene 2 protein) is a 403 amino acid protein encoded by the human GPRC5B gene. GPRC5B is an orphan receptor member of the G protein-coupled receptor 3 family. G protein-coupled receptors (GPCRs or GPRs) contain 7 transmembrane domains and transduce extracellular signals through heterotrimeric G proteins. Key roles for G protein-coupled receptors include control of protein maturation and cell surface delivery, and providing the correct framework for interactions with both heterotrimeric G proteins and arrestins to allow signal generation and termination. This retinoic acid-inducible G protein-coupled receptor provides evidence for a possible interaction between retinoid and G protein signaling pathways. GPRC5B is highly expressed in kidney, pancreas and testis, and has moderate expression in brain, heart, prostate, small intestine and spleen.

Additional Information

Gene ID	51704
Other Names	G-protein coupled receptor family C group 5 member B, A-69G12.1, Retinoic acid-induced gene 2 protein, RAIG-2, GPRC5B, RAIG2
Dilution	Flow-Cyt=1 □g/Test
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.

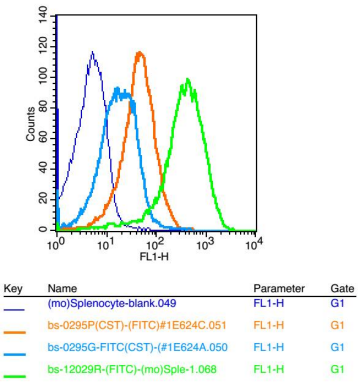
Protein Information

Name	GPRC5B
Synonyms	RAIG2
Function	G protein-coupled receptor involved in the regulation of cell volume.
Cellular Location	Cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane; Multi-pass membrane protein. Note=Localized in the plasma membrane and perinuclear vesicles
Tissue Location	Expression is high in kidney, pancreas, and testis, medium in brain, heart, prostate, small intestine, and spleen, low in liver, placenta, skeletal muscle, colon, ovary, and thymus, and not detectable in lung and peripheral leukocyte. According to PubMed:10945465, highly expressed in most brain areas examined, with the highest levels observed in corpus callosum, caudate nucleus, putamen, substantia nigra, thalamus, hippocampus, and spinal cord as well as in dorsal root ganglia (DRG). Expressed in glia limitans, ependymal cells, astrocyte cell bodies, the perivascular region in astrocyte endfeet, but not in neurons (PubMed:37143309). In the periphery, expression levels are relatively low, compared to the CNS, with the strongest expression detected in pancreas, testis, uterus, and stomach.

Background

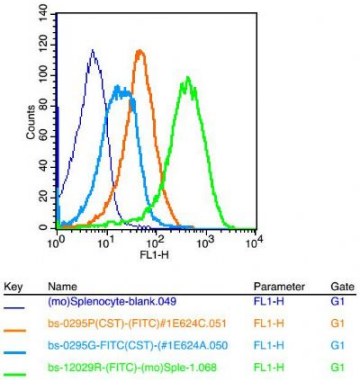
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Images



Positive control: (mo)Splenocytes(2% Paraformaldehyde-fixed)
Isotype Control Antibody: Rabbit IgG;
Dilution: 1 µg in 100 µl 1 X PBS containing 0.5% BSA
Secondary Antibody: Goat anti-rabbit IgG-FITC;
Dilution: 1:200 in 1 X PBS containing 0.5% BSA
Primary Antibody: rabbit Anti-GPRC5B (AP54708);
Dilution: 1 µg in 100 µl 1X PBS containing 0.5% BSA

Positive control: (mo)Splenocytes(2% Paraformaldehyde-fixed)
Isotype Control Antibody: Rabbit IgG; Dilution: 1 µg in 100 µl 1 X PBS containing 0.5% BSA
Secondary Antibody: Goat anti-rabbit IgG-FITC; Dilution: 1:200 in 1 X PBS containing 0.5% BSA
Primary Antibody: rabbit Anti-GPRC5B (AP54708);
Dilution: 1 µg in 100 µl 1X PBS containing 0.5% BSA



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