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GPR25 Rabbit pAb

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Catalog # AP55190

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O00155
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38779
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human G protein coupled receptor 25
Epitope Specificity	81-180/361
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.
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. GPR25 (G protein-coupled receptor 25) is a 361 amino acid multi-pass membrane protein that belongs to the G protein-coupled receptor family and functions as an orphan receptor, possibly playing a role in signal transduction throughout the cell. The gene encoding GPR25 maps to human chromosome 1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome.

Additional Information

Gene ID	2848
Other Names	C-X-C chemokine receptor GPR25, G-protein coupled receptor 25, GPR25 {ECO:0000303|PubMed:9020062, ECO:0000312|HGNC:HGNC:4480}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

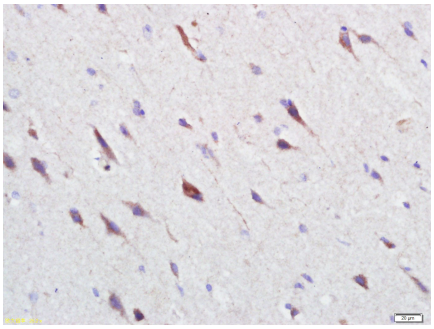
Protein Information

Name	GPR25 {ECO:0000303|PubMed:9020062, ECO:0000312|HGNC:HGNC:4480}
Function	Receptor for the C-X-C chemokine CXCL17, which plays a key role in lymphocyte homing (PubMed:39293486, PubMed:40279398). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors, such as RhoA pathway (PubMed:39293486). Activation by CXCL17 on lymphocytes activates the RhoA pathway, which regulates cytoskeletal dynamics and integrins, mediating lymphocyte recruitment into the respiratory, upper gastrointestinal, biliary and genito-urinary tracts (PubMed:39293486).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Present on activated B- and T-cells.

Background

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Images



Tissue/cell: human glioma tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-GPR25 Polyclonal Antibody, Unconjugated(AP55190) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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