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GPR77 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20046b

Product Information

Application	WB, E
Primary Accession	Q9P296
Other Accession	NP_060955.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB42221
Calculated MW	36080
Antigen Region	297-325

Additional Information

Gene ID	27202
Other Names	C5a anaphylatoxin chemotactic receptor 2, Complement component 5a receptor 2, G-protein coupled receptor 77, C5AR2, C5L2, GPR77
Target/Specificity	This GPR77 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 297-325 amino acids from the C-terminal region of human GPR77.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GPR77 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	C5AR2
Synonyms	C5L2 {ECO:0000303|PubMed:11090875}, GPR7
Function	Receptor for the chemotactic and inflammatory peptide anaphylatoxin C5a,

	stimulating chemotaxis, granule enzyme release, intracellular calcium release and superoxide anion production (PubMed:11773063). Also acts as a receptor for dearginated forms of C3a, C4a and C5a anaphylatoxin peptides (ASP/C3adesArg, C4adesArg and C5adesArg, respectively) (PubMed:12540846, PubMed:15833747, PubMed:19615750). 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 adenylate cyclase (PubMed:12540846). C5AR1 is coupled to G(i)/G(o) (GNAI1 or GNAO1) G alpha proteins and mediates inhibition of adenylate cyclase (PubMed:12540846).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Frontal cortex, hippocampus, hypothalamus, pons and liver.

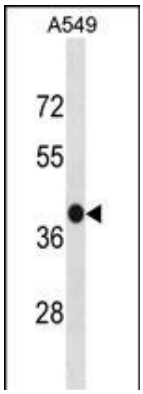
Background

The anaphylatoxins C3a (see MIM 120700), C4a (see MIM 120810), and C5a are cationic fragments generated during the complement cascade that participate in host defense. In the case of inappropriate complement activation, anaphylatoxins may be involved in autoimmunity and sepsis. C5L2 is coexpressed with the C5a receptor, C5AR (C5R1; MIM 113995), on polymorphonuclear neutrophils and may modulate C5AR activity (Gerard et al., 2005 [PubMed 16204243]).

References

Bamberg, C.E., et al. J. Biol. Chem. 285(10):7633-7644(2010)
Cui, W., et al. Mol. Immunol. 46(16):3207-3217(2009)
Cui, W., et al. Mol. Immunol. 46(15):3086-3098(2009)
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Images



GPR77 Antibody (C-term) (Cat. #AP20046b) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the GPR77 antibody detected the GPR77 protein (arrow).

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