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GPS1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12706c

Product Information

Application	WB, E
Primary Accession	Q13098
Other Accession	Q6NRT5, P97834, Q99LD4, NP_004118.3, NP_997657.1
Reactivity	Mouse
Predicted	Rat, Xenopus, Bovine, Canine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32094
Calculated MW	55537
Antigen Region	141-170

Additional Information

Gene ID	2873
Other Names	COP9 signalosome complex subunit 1, SGN1, Signalosome subunit 1, G protein pathway suppressor 1, GPS-1, JAB1-containing signalosome subunit 1, Protein MFH, GPS1, COPS1, CSN1
Target/Specificity	This GPS1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 141-170 amino acids from the Central region of human GPS1.
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	GPS1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GPS1
Synonyms	COPS1, CSN1

Function	Essential component of the COP9 signalosome complex (CSN), a complex involved in various cellular and developmental processes. The CSN complex is an essential regulator of the ubiquitin (Ubl) conjugation pathway by mediating the deneddylation of the cullin subunits of SCF-type E3 ligase complexes, leading to decrease the Ubl ligase activity of SCF-type complexes such as SCF, CSA or DDB2. The complex is also involved in phosphorylation of p53/TP53, c-jun/JUN, IkappaBalpha/NFKBIA, ITPK1 and IRF8/ICSBP, possibly via its association with CK2 and PKD kinases. CSN-dependent phosphorylation of TP53 and JUN promotes and protects degradation by the Ubl system, respectively. Suppresses G protein- and mitogen-activated protein kinase-mediated signal transduction.
Cellular Location	Cytoplasm. Nucleus
Tissue Location	Widely expressed..

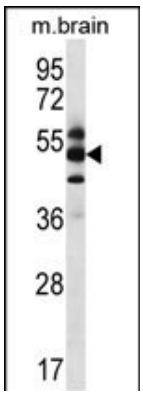
Background

This gene is known to suppress G-protein and mitogen-activated signal transduction in mammalian cells. The encoded protein shares significant similarity with Arabidopsis FUS6, which is a regulator of light-mediated signal transduction in plant cells. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq].

References

Matsuoka, S., et al. Science 316(5828):1160-1166(2007)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Olsen, J.V., et al. Cell 127(3):635-648(2006)
Beausoleil, S.A., et al. Nat. Biotechnol. 24(10):1285-1292(2006)
Wang, Y., et al. FEBS Lett. 572 (1-3), 85-91 (2004) :

Images



GPS1 Antibody (Center) (Cat. #AP12706c) western blot analysis in mouse brain tissue lysates (35ug/lane).This demonstrates the GPS1 antibody detected the GPS1 protein (arrow).

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