

# GPS1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12706c

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q13098</a>
<b>Other Accession</b>	<a href="#">Q6NRT5</a> , <a href="#">P97834</a> , <a href="#">Q99LD4</a> , <a href="#">NP_004118.3</a> , <a href="#">NP_997657.1</a>
<b>Reactivity</b>	Mouse
<b>Predicted</b>	Rat, Xenopus
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB32094
<b>Calculated MW</b>	55537
<b>Antigen Region</b>	141-170

## Additional Information

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<b>Gene ID</b>	2873
<b>Other Names</b>	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
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	GPS1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	GPS1
<b>Synonyms</b>	COPS1, CSN1

<b>Function</b>	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, I $\kappa$ B/ $\alpha$ /NF $\kappa$ B, 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.
<b>Cellular Location</b>	Cytoplasm. Nucleus
<b>Tissue Location</b>	Widely expressed..

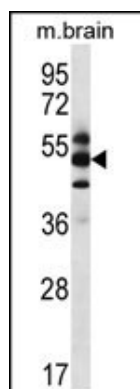
## Background

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'.