10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GPS1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12706c

Specification

GPS1 Antibody (Center) - Product Information

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

GPS1 Antibody (Center) - 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.

GPS1 Antibody (Center) - Protein Information

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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

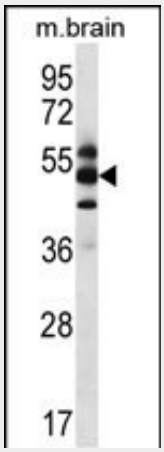
Tissue Location
Widely expressed..

GPS1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GPS1 Antibody (Center) - 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).

GPS1 Antibody (Center) - Background

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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].

GPS1 Antibody (Center) - 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) :