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Goat Anti-GPS1 / COPS1 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1498a

Specification

Goat Anti-GPS1 / COPS1 Antibody - Product Information

Application	**WB, E**
Primary Accession	Q13098
Other Accession	NP_004118, 2873, 209318 (mouse), 117039 (rat)
Reactivity	**Human**
Predicted	**Mouse, Rat, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**55537**

Goat Anti-GPS1 / COPS1 Antibody - 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

Dilution
WB~~1:1000
E~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-GPS1 / COPS1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-GPS1 / COPS1 Antibody - 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

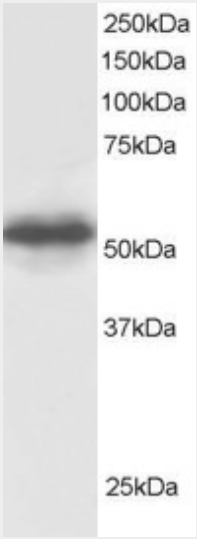
Tissue Location
Widely expressed..

Goat Anti-GPS1 / COPS1 Antibody - 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

Goat Anti-GPS1 / COPS1 Antibody - Images



AF1498a staining (0.5 µg/ml) of Human Testis lysate (RIPA buffer, 30 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

Goat Anti-GPS1 / COPS1 Antibody - 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.

Goat Anti-GPS1 / COPS1 Antibody - References

Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732.
Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931.
A probability-based approach for high-throughput protein phosphorylation analysis and site localization. Beausoleil SA, et al. Nat Biotechnol, 2006 Oct. PMID 16964243.
A family of diverse Cul4-Ddb1-interacting proteins includes Cdt2, which is required for S phase destruction of the replication factor Cdt1. Jin J, et al. Mol Cell, 2006 Sep 1. PMID 16949367.
A human protein-protein interaction network: a resource for annotating the proteome. Stelzl U, et al. Cell, 2005 Sep 23. PMID 16169070.