

**Goat Anti-SOCS7 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF2021a****Specification**

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**Goat Anti-SOCS7 Antibody - Product Information**

Application	WB, E
Primary Accession	<a href="#">O14512</a>
Other Accession	<a href="#">NP_055413</a> , <a href="#">30837</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	62969

**Goat Anti-SOCS7 Antibody - Additional Information****Gene ID** 30837**Other Names**

Suppressor of cytokine signaling 7, SOCS-7, Nck, Ash and phospholipase C gamma-binding protein, Nck-associated protein 4, NAP-4, SOCS7, NAP4, SOCS6

**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-SOCS7 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-SOCS7 Antibody - Protein Information****Name** SOCS7 {ECO:0000303|PubMed:16127460, ECO:0000312|HGNC:HGNC:29846}**Function**

Substrate-recognition component of a cullin-5-RING E3 ubiquitin-protein ligase complex (ECS complex, also named CRL5 complex), which mediates the ubiquitination and subsequent

proteasomal degradation of target proteins, such as DAB1 and IRS1 (PubMed:<a href="http://www.uniprot.org/citations/16127460" target="\_blank">16127460</a>). Specifically recognizes and binds phosphorylated proteins via its SH2 domain, promoting their ubiquitination (By similarity). The ECS(SOCS7) complex acts as a key regulator of reelin signaling by mediating ubiquitination and degradation of phosphorylated DAB1 in the cortical plate of the developing cerebral cortex, thereby regulating neuron positioning during cortex development (By similarity). Functions in insulin signaling and glucose homeostasis through IRS1 ubiquitination and subsequent proteasomal degradation (PubMed:<a href="http://www.uniprot.org/citations/16127460" target="\_blank">16127460</a>). Also inhibits prolactin, growth hormone and leptin signaling by preventing STAT3 and STAT5 activation, sequestering them in the cytoplasm and reducing their binding to DNA (PubMed:<a href="http://www.uniprot.org/citations/15677474" target="\_blank">15677474</a>).

#### Cellular Location

Cytoplasm. Nucleus Cell membrane; Peripheral membrane protein; Cytoplasmic side. Note=Mostly cytoplasmic, but shuttles between the cytoplasm and the nucleus (PubMed:17803907). Rapidly relocalizes to the nucleus after UV irradiation (PubMed:17803907) Cytoplasmic location depends upon SEPT7 presence (PubMed:17803907)

#### Tissue Location

Expressed in brain and leukocytes (PubMed:9344857). Also in fetal lung fibroblasts and fetal brain (PubMed:9344857)

### Goat Anti-SOCS7 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 Cytometry](#)
- [Cell Culture](#)

### Goat Anti-SOCS7 Antibody - Images



AF2021a (1 µg/ml) staining of Daudi lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### Goat Anti-SOCS7 Antibody - References

Higher expression levels of SOCS 1,3,4,7 are associated with earlier tumour stage and better clinical outcome in human breast cancer. Sasi W, et al. BMC Cancer, 2010 Apr 30. PMID 20433750.

Hepatitis C virus core protein genotype 3a increases SOCS-7 expression through PPAR- $\gamma$  in Huh-7 cells. Pazienza V, et al. J Gen Virol, 2010 Jul. PMID 20357037.

Septins regulate actin organization and cell-cycle arrest through nuclear accumulation of NCK mediated by SOCS7. Kremer BE, et al. Cell, 2007 Sep 7. PMID 17803907.

DNA sequence of human chromosome 17 and analysis of rearrangement in the human lineage. Zody MC, et al. Nature, 2006 Apr 20. PMID 16625196.

Deletion of SOCS7 leads to enhanced insulin action and enlarged islets of Langerhans. Banks AS, et al. J Clin Invest, 2005 Sep. PMID 16127460.