

# SOCS-2 Polyclonal Antibody

Catalog # AP74060

## Product Information

Application	WB, IHC-P
Primary Accession	<a href="#">O14508</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22172

## Additional Information

Gene ID	8835
Other Names	Suppressor of cytokine signaling 2 (SOCS-2) (Cytokine-inducible SH2 protein 2) (CIS-2) (STAT-induced STAT inhibitor 2) (SSI-2)
Dilution	WB~~WB 1:500-2000,IHC-p 1:500-200, ELISA 1:10000-20000 IHC-P~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

Name	SOCS2 {ECO:0000303   PubMed:10512686, ECO:0000312   HGNC:HGNC:19382}
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 EPOR and GHR (PubMed: <a href="#">11781573</a> , PubMed: <a href="#">21980433</a> , PubMed: <a href="#">25505247</a> , PubMed: <a href="#">31182716</a> , PubMed: <a href="#">34857742</a> ). Specifically recognizes and binds phosphorylated proteins via its SH2 domain, promoting their ubiquitination (PubMed: <a href="#">21980433</a> , PubMed: <a href="#">25505247</a> , PubMed: <a href="#">31182716</a> , PubMed: <a href="#">34857742</a> , PubMed: <a href="#">37816714</a> ). The ECS(SOCS2) complex acts as a key regulator of growth hormone receptor (GHR) levels by mediating ubiquitination and degradation of GHR, following GHR phosphorylation by JAK2 (PubMed: <a href="#">21980433</a> , PubMed: <a href="#">25505247</a> , PubMed: <a href="#">34857742</a> ). The ECS(SOCS2) also catalyzes ubiquitination and degradation of JAK2-phosphorylated EPOR (PubMed: <a href="#">11781573</a> ).
Cellular Location	Cytoplasm.
Tissue Location	High expression in heart, placenta, lung, kidney and prostate. Predominantly

expressed in pulmonary epithelia cells, specifically type II pneumocytes.

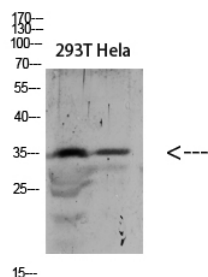
## Background

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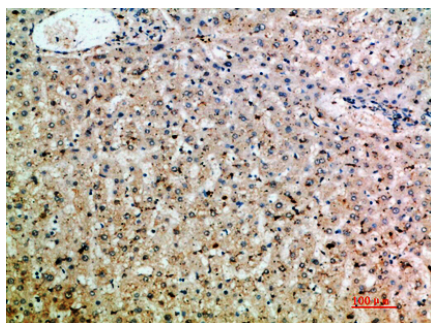
SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. SOCS2 appears to be a negative regulator in the growth hormone/IGF1 signaling pathway. Probable substrate recognition component of a SCF-like ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin- protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins.

## Images

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Western blot analysis of Hela lysate, antibody was diluted at 1000. Secondary antibody was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:200

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