

**Anti-SOCS2 Antibody** 

Rabbit polyclonal antibody to SOCS2 Catalog # AP59759

#### **Product Information**

ApplicationWBPrimary AccessionO14508Other AccessionO35717

**Reactivity** Human, Mouse, Rat, Monkey, Pig, Bovine, Drosophila

HostRabbitClonalityPolyclonalCalculated MW22172

## **Additional Information**

Gene ID 8835

Other Names CIS2; SSI2; STATI2; Suppressor of cytokine signaling 2; SOCS-2;

Cytokine-inducible SH2 protein 2; CIS-2; STAT-induced STAT inhibitor 2; SSI-2

**Target/Specificity** KLH-conjugated synthetic peptide encompassing a sequence within the center

region of human SOCS2. The exact sequence is proprietary.

**Dilution** WB~~WB (1/500 - 1/1000)

**Format** Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30%

glycerol, and 0.09% (W/V) sodium azide.

**Storage** Store at -20 °C.Stable for 12 months from date of receipt

### **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: 11781573, PubMed: 21980433,

PubMed:<u>25505247</u>, PubMed:<u>31182716</u>, PubMed:<u>34857742</u>). Specifically recognizes and binds phosphorylated proteins via its SH2 domain, promoting

their ubiquitination (PubMed:21980433, PubMed:25505247,

PubMed:<u>31182716</u>, PubMed:<u>34857742</u>, PubMed:<u>37816714</u>). 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:<u>21980433</u>, PubMed:<u>25505247</u>, PubMed:<u>34857742</u>). The ECS(SOCS2) also catalyzes ubiquitination and

degradation of JAK2-phosphorylated EPOR (PubMed: 11781573).

**Cellular Location** Cytoplasm.

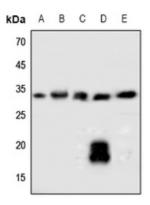
**Tissue Location** High expression in heart, placenta, lung, kidney and prostate. Predominantly

expressed in pulmonary epithelia cells, specifically type II pneumocytes.

# **Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SOCS2. The exact sequence is proprietary.

## **Images**



Western blot analysis of SOCS2 expression in HEK293T (A), Hela (B), mouse lung (C), mouse liver (D), rat liver (E) whole cell lysates.

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