

SOCS2

Rabbit Monoclonal antibody(Mab)

Catalog # AD81498

Product Information

Application	IHC-P
Primary Accession	O14508
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Clone Names	445I2A0
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, SOCS2, CIS2, SSI2, STATI2
Dilution	IHC-P~~N/A
Storage	Maintain refrigerated at 2-8°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: 11781573 , PubMed: 21980433 , PubMed: 25505247 , PubMed: 31182716 , PubMed: 34857742). Specifically recognizes and binds phosphorylated proteins via its SH2 domain, promoting their ubiquitination (PubMed: 21980433 , PubMed: 25505247 , PubMed: 31182716 , PubMed: 34857742 , PubMed: 37816714). 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: 21980433 , PubMed: 25505247 , PubMed: 34857742). 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.