

**SOCS-2 Polyclonal Antibody**

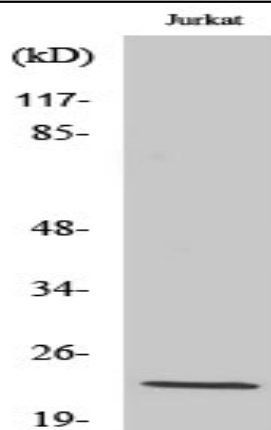
<b>Catalog No :</b>	YT4363
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC
<b>Target :</b>	SOCS-2
<b>Fields :</b>	>>JAK-STAT signaling pathway;>>Insulin signaling pathway;>>Prolactin signaling pathway;>>Type II diabetes mellitus;>>Growth hormone synthesis, secretion and action
<b>Gene Name :</b>	SOCS2
<b>Protein Name :</b>	Suppressor of cytokine signaling 2
<b>Human Gene Id :</b>	8835
<b>Human Swiss Prot No :</b>	O14508
<b>Mouse Gene Id :</b>	216233
<b>Mouse Swiss Prot No :</b>	O35717
<b>Rat Gene Id :</b>	84607
<b>Rat Swiss Prot No :</b>	O88582
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human SOCS-2. AA range:18-67
<b>Specificity :</b>	SOCS-2 Polyclonal Antibody detects endogenous levels of SOCS-2 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000;IHC 1:50-300

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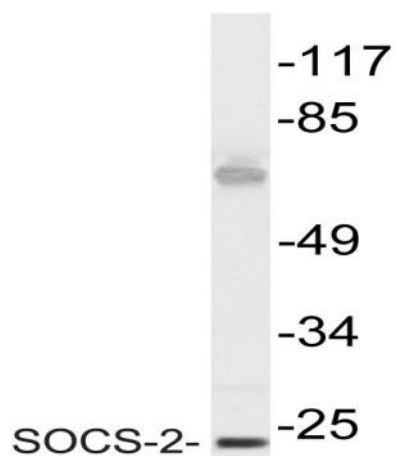
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	22kD
<b>Cell Pathway :</b>	Jak_STAT;Insulin_Receptor;Type II diabetes mellitus;
<b>Background :</b>	<p>This gene encodes a member of the suppressor of cytokine signaling (SOCS) family. SOCS family members are cytokine-inducible negative regulators of cytokine receptor signaling via the Janus kinase/signal transducer and activation of transcription pathway (the JAK/STAT pathway). SOCS family proteins interact with major molecules of signaling complexes to block further signal transduction, in part, by proteasomal depletion of receptors or signal-transducing proteins via ubiquitination. The expression of this gene can be induced by a subset of cytokines, including erythropoietin, GM-CSF, IL10, interferon (IFN)-gamma and by cytokine receptors such as growth hormone receptor. The protein encoded by this gene interacts with the cytoplasmic domain of insulin-like growth factor-1 receptor (IGF1R) and is thought to be involved in the regulation of IGF1R mediated cell signaling. This gene has</p>
<b>Function :</b>	<p>domain:The SOCS box domain mediates the interaction with the Elongin BC complex, an adapter module in different E3 ubiquitin ligase complexes.,function: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.,induction:By a subset of cytokines, including erythropoietin and granulocyte-macrophage colony stimulating factor (GM-CSF).,pathway:Protein modification; protein ubiquitination.,similarity:Contains 1 SH2 domain.,similarity:Contains 1 SOCS box domain.,subunit:Interacts with IGF1 receptor, prolactin receptor and growth h</p>
<b>Subcellular Location :</b>	cytoplasm,cytosol,
<b>Expression :</b>	High expression in heart, placenta, lung, kidney and prostate. Predominantly expressed in pulmonary epithelia cells, specifically type II pneumocytes.

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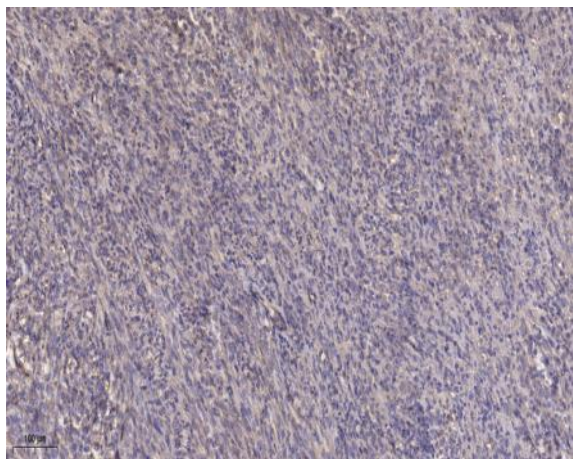
## Products Images



Western Blot analysis of various cells using SOCS-2 Polyclonal Antibody diluted at 1:1000



Western blot analysis of lysate from Jurkat cells, using SOCS-2 antibody.



Immunohistochemical analysis of paraffin-embedded human Colon cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).