Data Sheet (Cat.No.TMAB-13016)

TargetMol

Anti-SOCS1 Antibody (9R848)

Product Details

Ig Type:	IgG1
Reactivity:	Human,Rat (predicted:Mouse)
Molecular Weight:	Theoretical: 23 kDa.
Clone:	9R848
Purification:	Protein A purified

Applications

Verified Activity:	1. Paraformaldehyde-fixed, paraffin embedded (rat intestine); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (SOCS1) Monoclonal Antibody, Unconjugated (TMAB-13016) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining. 2. Paraformaldehyde-fixed, paraffin embedded (human skin cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (SOCS1) Monoclonal Antibody, Unconjugated (TMAB-13016) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.
Application:	IHC-P,IHC-Fr,IF
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human Socs 1
Antigen Species:	Human
Gene ID:	8651
Uniprot ID:	O15524

Research Background

SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. SOCS1 is involved in negative regulation of cytokines that signal through the JAK/STAT3 pathway. Through binding to JAKs, inhibits their kinase activity. In vitro, also suppresses Tec protein-tyrosine activity (By similarity). Appears to be a major regulator of signaling by interleukin 6 (IL6) and leukemia inhibitory factor(LIF). Regulates interferon-gamma mediated sensory neuron survival. Implicated, through SOCS box binding, in ubiquitin-dependent protein degradation. High expression in thymus. Lower expression in lung and spleen.

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