abcam

Product datasheet

Recombinant Mouse SOCS1 protein (Tagged) ab236163

1 Image

Description

Product name	Recombinant Mouse SOCS1 protein (Tagged)
Purity	> 85 % SDS-PAGE.
Expression system	Escherichia coli
Accession	O35716
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Mouse
Sequence	MVARNQVAADNAISPAAEPRRRSEPSSSSSSSSPAAPVR PRPCPAVPAPA PGDTHFRTFRSHSDYRRITRTSALLDACGFYWGPLSVHGA HERLRAEPVG TFLVRDSRQRNCFFALSVKMASGPTSIRVHFQAGRFHLD GSRETFDCLFE LLEHYVAAPRRMLGAPLRQRRVRPLQELCRQRIVAAVGR ENLARIPLNPV LRDYLSSFPFQI
Predicted molecular weight	29 kDa including tags
Amino acids	1 to 212
Tags	His tag N-Terminus
Additional sequence information	N-terminal 10xHis-tagged and C-terminal Myc-tagged.

Specifications

Our **Abpromise guarantee** covers the use of **ab236163** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid

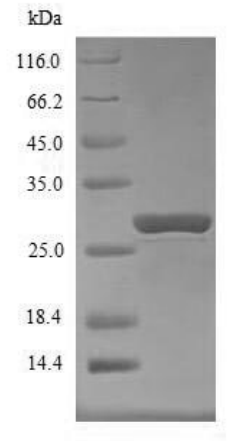
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.2 Constituents: Tris buffer, 50% Glycerol (glycerin, glycerine)

General Info

Function	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. Appears to be a major regulator of signaling by interleukin 6 (IL6) and leukemia inhibitory factor (LIF). Regulates interferon-gamma mediated sensory neuron survival (By similarity). Probable substrate recognition component of an ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Seems to recognize JAK2.
Tissue specificity	Expressed in all tissues with high expression in spleen, small intestine and peripheral blood leukocytes.
Pathway	Protein modification; protein ubiquitination.
Sequence similarities	Contains 1 SH2 domain. Contains 1 SOCS box domain.
Domain	The ESS and SH2 domains are required for JAK phosphotyrosine binding. Further interaction with the KIR domain is necessary for signal and kinase inhibition. The SOCS box domain mediates the interaction with the Elongin BC complex, an adapter module in different E3 ubiquitin ligase complexes. The Elongin BC complex binding domain is also known as BC-box with the consensus [APST]-L-x(3)-C-x(3)-[AILV] and is part of the SOCS box.

Images



SDS-PAGE - Recombinant Mouse SOCS1 protein (Tagged) (ab236163)

ab236163 analyzed by (Tris-Glycine gel) discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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