

Product datasheet

Anti-SOCS5 antibody ab3695

[1 References](#) [1 Image](#)

Overview

Product name	Anti-SOCS5 antibody
Description	Rabbit polyclonal to SOCS5
Host species	Rabbit
Specificity	This antibody reacts predominantly with SOCS 5. It was evaluated for specificity with a dot blot assay using synthetically prepared SOCS peptides: it only recognizes SOCS 5, no other SOCS.
Tested applications	Suitable for: IHC-P, WB, IP, ELISA
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide corresponding to C-terminus of human/ mouse SOCS 5.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	PBS with 0.02% sodium azide
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab3695** in the following tested applications.

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

Application	Abreviews	Notes
IHC-P		Use a concentration of 10 - 20 µg/ml.
WB		Use a concentration of 0.5 - 2 µg/ml. Detects a band of approximately 64 kDa (predicted molecular weight: 64 kDa).

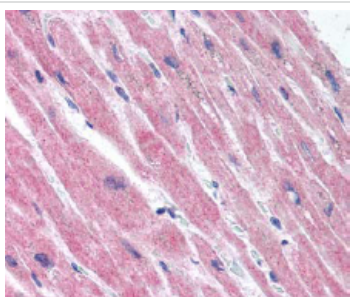
Application	Abreviews	Notes
IP		Use 3-5µg for 10 ⁷ cells.
ELISA		Use a concentration of 0.1 - 1 µg/ml.

Target

Relevance

The eight members of the recently identified Suppressor of Cytokines Signaling (SOCS) family are SOCS1, SOCS2, SOCS3, SOCS4, SOCS5, SOCS6, SOCS7, and CIS. Structurally the SOCS proteins are composed of an N-terminal region of variable length and amino acid composition, a central SH2 domain, and a C-terminal motif called the SOCS box. The SOCS proteins appear to form part of a classical negative feedback loop that regulates cytokine signal transduction. Transcription of each of the SOCS genes occurs rapidly in vitro and in vivo in response to cytokines, and once produced, the various members of the SOCS family appear to inhibit signaling in different ways. During Th1 differentiation a reduction in the association of Jak1 with the IL4 Receptor correlated with the appearance of SOCS5. SOCS5 protein was preferentially expressed in committed Th1 cells and interacted with the cytoplasmic region of the IL4 Receptor alpha chain irrespective of receptor tyrosine phosphorylation. This unconventional interaction of SOCS5 protein with IL4 Receptor resulted in the inhibition of IL4-mediated signal transducer and activator of transcription-6 activation. T cells from transgenic mice constitutively expressing SOCS5 exhibited a significant reduction of IL4-mediated Th2 development. Therefore, the induced SOCS5 protein in Th1 differentiation environment may play an important role by regulating Th1 and Th2 balance.

Images



ab3695 staining formalin-fixed, paraffin embedded tissue section of cardiac myocytes within human heart. The primary antibody was diluted 10 µg/ml and it was detected by ABC kit. Nuclears are counterstained with hematoxylin purple.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - SOCS5 antibody (ab3695)

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