

Product datasheet

Anti-SOCS7 antibody [EPR8466] ab133677

Recombinant RabMAb

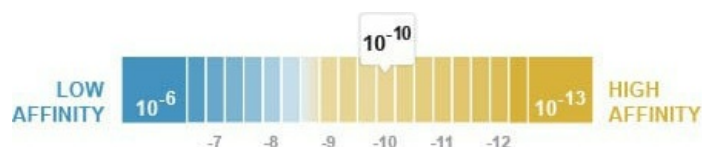
4 Images

Overview

Product name	Anti-SOCS7 antibody [EPR8466]
Description	Rabbit monoclonal [EPR8466] to SOCS7
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt, ICC/IF or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human SOCS7 (N terminal). The exact sequence is proprietary.
Positive control	MCF7, HeLa, Jurkat and U-87 MG cell lysates; Human brain tissue.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K_D)	K _D = 1.07 x 10 ⁻¹⁰ M



[Learn more about K_D](#)

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR8466
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab133677 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

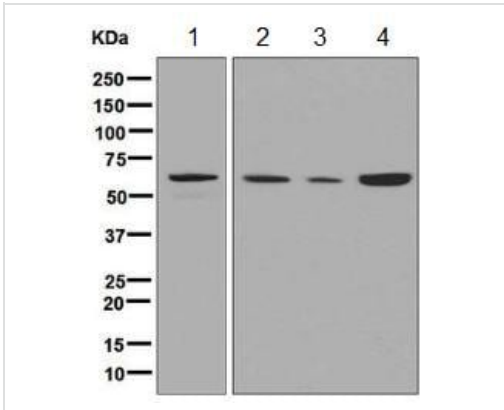
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 60 kDa (predicted molecular weight: 63 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Application notes Is unsuitable for Flow Cyt, ICC/IF or IP.

Target

Function	Regulates signaling cascades probably through protein ubiquitination and/or sequestration. Functions in insulin signaling and glucose homeostasis through IRS1 ubiquitination and subsequent proteasomal degradation. Inhibits also prolactin, growth hormone and leptin signaling by preventing STAT3 and STAT5 activation, sequestering them in the cytoplasm and reducing their binding to DNA. May be a substrate recognition component of a SCF-like E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins.
Tissue specificity	Expressed in brain and leukocytes. Also in fetal lung fibroblasts and fetal brain.
Pathway	Protein modification; protein ubiquitination.
Sequence similarities	Contains 1 SH2 domain. Contains 1 SOCS box domain.
Domain	The SOCS box domain mediates the interaction with the Elongin BC complex, an adapter module in different E3 ubiquitin ligase complexes (By similarity). It is required for IRS1 ubiquitination and subsequent proteasomal degradation.
Cellular localization	Cytoplasm. Cell membrane. Nucleus. Mostly cytoplasmic, but shuttles between the cytoplasm and the nucleus. Rapidly relocalizes to the nucleus after UV irradiation. Cytoplasmic location depends upon SEPT7 presence.

Images



Western blot - Anti-SOCS7 antibody [EPR8466] (ab133677)

All lanes : Anti-SOCS7 antibody [EPR8466] (ab133677) at 1/1000 dilution

Lane 1 : MCF7 cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : Jurkat cell lysate

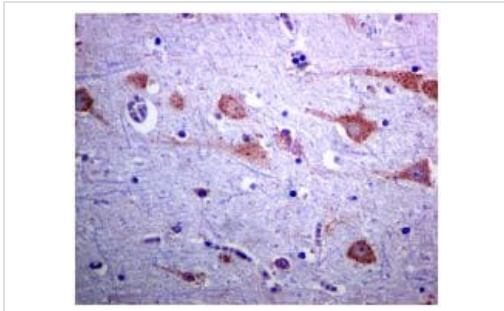
Lane 4 : U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

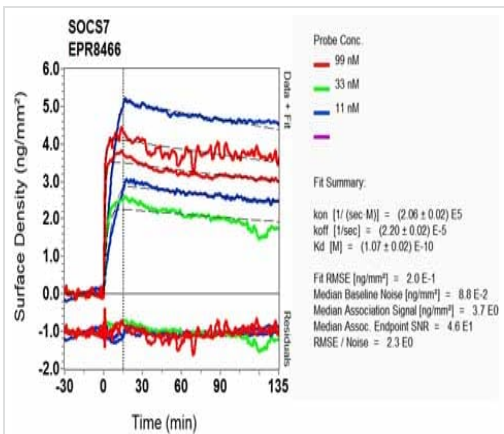
Predicted band size: 63 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOCS7 antibody [EPR8466] (ab133677)

Immunohistochemical analysis of paraffin-embedded Human brain tissue labelling SOCS7 with ab133677 at 1/100 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Ox-RD Scanning - Anti-SOCS7 antibody [EPR8466] (ab133677)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-SOCS7 antibody [EPR8466] (ab133677)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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