

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                             |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human SOCS-2 in direct ELISAs and Western blots.                                          |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>2B</sub> Clone # 517206                                                 |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                                        |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human SOCS-2<br>Met1-Gln197 (predicted)<br>Accession # O14508 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm               |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                                      |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                                   |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## BACKGROUND

SOCS-2 (Suppressor of cytokine signaling 2; also CIS-2 and SSI-2) is a 25 kDa member of the SOCS family of proteins. It is an SH2-domain containing cytoplasmic adaptor protein expressed by multiple cell types. It blocks receptor signaling by binding to phosphorylated tyrosines in the cytoplasmic domain of select receptors, including the receptors for leptin, IGF-I and GH. Human SOCS-2 is 198 amino acids (aa) in length. It contains one SH2 domain (aa 48-156) and a SOCS box (aa 160-198) that mediates interaction with elongin B or C of the E3 ubiquitin ligase complex. There is one splice variant that shows an Arg-rich eight aa substitution for aa 31-39. Full-length SOCS-2 is 94% and 96% aa identical to mouse and porcine SOCS-2, respectively.

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