

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                 |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human CIS-1 in direct ELISAs.                                                 |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Rat IgG <sub>2A</sub> Clone # 989616                                       |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                            |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human CIS-1<br>Leu11-Leu258<br>Accession # Q9NSE2 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 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

Cytokine Inducible SH2-containing protein (CIS-1) is a 29 kDa protein found in a variety of cell types. Mono or polyubiquitination generally results in a 37 or 45 kDa molecule. CIS-1 binds to phosphorylated cytokine receptors IL-3 R $\beta$  and EPO-R and blocks downstream activation of STAT5 via receptor internalization and ubiquitin-mediated proteosomal degradation. Human CIS-1 is a 258 aa peptide that contains one SH2 domain (aa 82-163) and one SOCS box (aa 218-258). There are two known alternatively spliced variants with a 7- or 13-aa substitution for the 7 N-terminal amino acid residues. Over the region used as immunogen, human CIS-1 is 91% identical to the corresponding mouse and canine protein sequences.

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