

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                              |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human Tyk2 in Western blots.                                               |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>3</sub> Clone # 307214                                   |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                         |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human Tyk2<br>Pro2-Leu51<br>Accession # P29597 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 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

Tyk2 belongs to the Janus family of intracellular tyrosine kinases that are activated by receptors for many cytokines. Activation of Tyk2 occurs via phosphorylation at two adjacent tyrosine residues, Y1054 and Y1055, within the kinase domain. Tyk2 is required for interferon β-mediated tyrosine phosphorylation of STAT3 and interferon receptor 1. Mice lacking Tyk2 are susceptible to parasitic infection but resistant to autoimmune arthritis.

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