

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Mouse                                                                                           |
| <b>Specificity</b>                                                                                                                                                                                      | Detects mouse and human Ryk in direct ELISAs and Western blots.                                 |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Sheep IgG                                                                            |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                                       |
| <b>Immunogen</b>                                                                                                                                                                                        | Mouse myeloma cell line NS0-derived recombinant mouse Ryk<br>Arg35-Arg211<br>Accession # Q01887 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>CyTOF-ready</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Flow Cytometry</b>      | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b> | 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

Ryk (related to tyrosine (Y) kinase; also VIK and MRK) is a member of the tyrosine protein kinase family. It is a type I transmembrane glycoprotein that binds Wnt and forms a Wnt receptor complex with frizzled. In this capacity, it serves as a link between Wnt and Dishevelled. Mouse Ryk is 594 amino acids (aa) in length. It contains a 177 aa extracellular region (aa 35-211) that shows one WIF-1-like domain (aa 51-180), and a cytoplasmic region that possesses a nonfunctional Ser/Thr protein kinase domain (aa 318-581). There is one alternate start site at Met117. Over aa 35-211, mouse Ryk is 94% aa identical to human Ryk, and shows absolute (100%) aa identity to rat Ryk.

## PRODUCT SPECIFIC NOTICES

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