

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human/Mouse                                                                         |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human Tec in direct ELISAs and Western blots.                               |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>2B</sub> Clone # 663921                                   |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                          |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human Tec<br>Met1-Met187<br>Accession # P42680  |
| <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.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</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

The tyrosine protein kinase Tec is an approximately 70 kDa member of the protein kinase superfamily, tyrosine protein family, and Tec subfamily. Human Tec is 631 amino acids (aa) in length. Amino acid residues 4-111 constitute a Tec pleckstrin homology (PH) domain, and aa 113-149 make up a Btk-type zinc finger. Residues 179-239 form a Src homology 3 (SH3) domain, and aa 247-345 make up a Src homology 2 (SH2) domain. The region involving positions 365-620 constitutes the catalytic domain of the protein tyrosine kinases. Human Tec shares 94% aa sequence identity with mouse Tec. Human Tec is expressed in hematopoietic cell lines including B-cell, T-cell, and myeloid lineages.

## PRODUCT SPECIFIC NOTICES

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