

DESCRIPTION

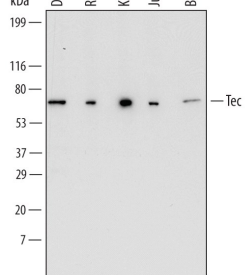
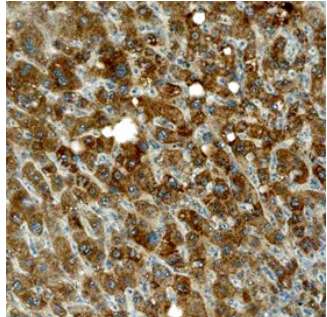
Species Reactivity	Human/Mouse
Specificity	Detects human Tec in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 663921
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Tec Met1-Met187 Accession # P42680
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below

DATA

<p>Western Blot</p> 	<p>Detection of Human and Mouse Tec by Western Blot. Western blot shows lysates of Daudi human Burkitt's lymphoma cell line, Ramos human Burkitt's lymphoma cell line, K562 human chronic myelogenous leukemia cell line, Jurkat human acute T cell leukemia cell line, and BaF3 mouse pro-B cell line. PVDF Membrane was probed with 1 µg/mL of Human/Mouse Tec Monoclonal Antibody (Catalog # MAB6519) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Tec at approximately 66 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p>  <p>Tec in Human Liver. Tec was detected in immersion fixed paraffin-embedded sections of human liver using Human/Mouse Tec Monoclonal Antibody (Catalog # MAB6519) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in hepatocytes. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.