

DESCRIPTION

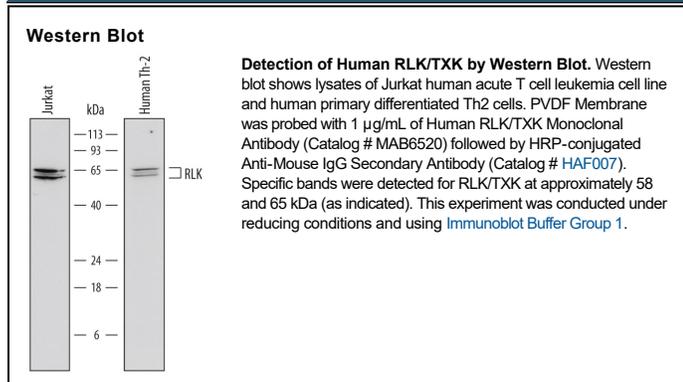
Species Reactivity	Human
Specificity	Detects human RLK/TKX in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 674801
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human RLK/TKX Trp150-Val246 Accession # P42681
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 either lyophilized or 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

DATA



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

RLK (resting lymphocyte kinase), also called TKX (T cell-expressed kinase) or PTK4, is a protein tyrosine kinase of the TEK family. It is expressed in T cells and some myeloid cells, especially in Th1 cells in inflammatory diseases such as rheumatoid arthritis and Behcet's disease. Upon TCR stimulation, it translocates to the nucleus and induces IFN-γ production. An alternate start site creates a resident nuclear 55 kDa form in addition to the larger (~58 kDa) form that is cytoplasmic or targeted to the plasma membrane via palmitoylation of a cysteine string motif. The region used as an immunogen is common to both forms and shares 79% and 81% amino acid identity with mouse and rat RLK, respectively.