

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human RLK/TXK 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/TXK Trp150-Val246 Accession # P42681
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	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

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

RLK (resting lymphocyte kinase), also called TXK (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.

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