

## Anti-Thymidine Kinase 1/TK1 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: PB9832-Fluoro488

### About TK1

Thymidine kinase 1, soluble (gene name TK1), is a human thymidine kinase. Thymidine kinase catalyzes the phosphorylation of thymidine to deoxythymidine monophosphate. This gene is mapped to 17q23.2-q25.3. It is estimated that the maximal size of the TK1 gene is 14 kb and its minimal size between 4 and 5 kb. The gene contains many noncoding inserts and numerous Alu sequences. There are two forms of this protein, which have been identified in animal cells, one in cytosol and one in mitochondria. Activity of the cytosolic enzyme is high in proliferating cells and peaks during the S-phase of the cell cycle; it is very low in resting cells.

### Overview

Product Name	Anti-Thymidine Kinase 1/TK1 Antibody Picoband® Fluoro488 Conjugated
Reactive Species	Human
Application	Recommended applications are based on the parent unconjugated antibody (WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P04183

### Technical Details

Immunogen	E. coli-derived human TK1 recombinant protein (Position: S2-N234). Human TK1 shares 87.1% and 91.7% amino acid (aa) sequence identity with mouse and rat TK1, respectively.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

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