

Anti-Thymidine kinase 1 Antibody (8U897)

Product Details

Ig Type:	IgG
Reactivity:	Human
Molecular Weight:	Theoretical: 25 kDa. Actual: 25 kDa.
Clone:	8U897
Purification:	Protein A purified

Applications

Verified Activity:	25 µg total protein per lane of various lysates (see on figure) probed with Thymidine kinase 1 monoclonal antibody, unconjugated (TMAB-13528) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r. T. for 60 min.
Application:	FCM,ICC/IF,IP,WB
Recommended	FCM=1:50-100; ICC/IF=1:50-100; IP=1:20-50; WB=1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthesized peptide: human Thymidine kinase
Antigen Species:	Human
Gene ID:	7083
Uniprot ID:	P04183

Research Background

Thymidine Kinase (TK1) is a highly conserved phosphotransferase that is present in most living cells. Thymidine Kinase catalyzes the phosphorylation reaction: deoxythymidine + ATP = deoxythymidine 5'-phosphate + ADP; it is thus involved in the reaction chain to introduce deoxythymidine into the DNA. Thymidine kinase is required for the action of many antiviral drugs, such as azidothymidine (AZT), and is also used to select hybridoma cell lines in the production of monoclonal antibodies. Thymidine Kinase has many clinical applications as it is only present in anticipation of cell division. Because of this, Thymidine Kinase can be used as a proliferation marker in the diagnosis, treatment, and follow-up of malignant diseases, especially hematological malignancies. Thymidine Kinase may be observed as a monomer, dimer, trimer or tetramer.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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