



Rabbit Anti-Human TK1 monoclonal antibody, clone KG1081 (CABT-L869)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	Thymidine Kinase 1
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	KG1081
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, ICC/IF, IHC, IP, FC
Molecular Weight	25 kDa
Cellular Localization	Cytoplasm.
Positive Control	NIH/3T3, SW480, Hela, 293T, human tonsil tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
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BACKGROUND

Introduction	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.
Keywords	cytosolic;KITH_HUMAN;Thymidine kinase 1;Thymidine kinase 1 soluble;Thymidine kinase 1 soluble isoform;Thymidine kinase;Thymidine kinase cytosolic;TK 1;TK 2;TK1;Tk1a;Tk1b;TK2 antibody

GENE INFORMATION

Entrez Gene ID	7083
UniProt ID	P04183
