

KD-Validated Anti-Thymidine Kinase 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1431

Product Information

Application	WB, FC, ICC
Primary Accession	P04183
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB3555
Calculated MW	25469
Gene Name	TK1
Aliases	TK1; Thymidine Kinase 1; Thymidine Kinase, Cytosolic; Cytosolic Thymidine Kinase; EC 2.7.1.21; Epididymis Secretory Sperm Binding Protein; Thymidine Kinase 1, Soluble; TK2
Immunogen	A synthesized peptide derived from human Thymidine Kinase 1

Additional Information

Gene ID	7083
Other Names	Thymidine kinase, cytosolic, 2.7.1.21, TK1 (HGNC:11830)

Protein Information

Name	TK1 (HGNC:11830)
Function	Cell-cycle-regulated enzyme of importance in nucleotide metabolism (PubMed: 9575153). Catalyzes the first enzymatic step in the salvage pathway converting thymidine into thymidine monophosphate (PubMed: 22385435). Transcriptional regulation limits expression to the S phase of the cell cycle and transient expression coincides with the oscillation in the intracellular dTTP concentration (Probable). Also important for the activation of anticancer and antiviral nucleoside analog prodrugs such as 1-b-d-arabinofuranosylcytosine (AraC) and 3c- azido-3c-deoxythymidine (AZT) (PubMed: 22385435).
Cellular Location	Cytoplasm.

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