

ARG54581
anti-Thymidine Kinase antibody [3B3.E11]

Package: 100 µg

Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [3B3.E11] recognizes Thymidine Kinase
Tested Reactivity	Hu
Tested Application	ELISA, WB
Specificity	This antibody specifically recognizes human thymidine kinase.
Host	Mouse
Clonality	Monoclonal
Clone	3B3.E11
Isotype	IgG1
Target Name	Thymidine Kinase
Species	Human
Immunogen	5'-His-tagged recombinanthuman thymidine kinase
Conjugation	Un-conjugated
Alternate Names	Thymidine kinase, cytosolic; TK2; EC 2.7.1.21

Application Instructions

Application Note	Western blot: antibody at 10 µg/ml will recognize TK in 5, 10, or 20 µg lysates of cells that express TK. ELISA: use antibody at 2 - 5 µg/ml (optimized for TK on solid phase at 10 µg/ml). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
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Properties

Form	Liquid
Purification	Protein G-purified
Buffer	PBS (pH 7.4)
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 7083 Human Swiss-port # P04183 Human
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Gene Symbol	TK1
Gene Full Name	thymidine kinase 1, soluble
Background	Thymidine kinase (TK) belongs to a group of enzymes such as dihydrofolate reductase, thymidylate synthase, and DNA polymerase that are involved in DNA synthesis and precursor production. High levels of these enzymes are present in proliferating cells, and low levels are found in resting cells, due to multiple regulatory mechanisms that ensure exclusive expression of these enzymes in replicating cells. TK is responsible for catalyzing the phosphorylation of thymidine, which functions as a part of the pyrimidine salvage pathway involved in DNA synthesis. The activities of enzymes such as TK are essential for the activation of several chemotherapeutically important nucleoside analogues that are administered as prodrugs.
Research Area	Gene Regulation antibody
Calculated Mw	25 kDa
PTM	Phosphorylated on Ser-13 in mitosis.