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Epstein-Barr TK Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP8100a

Specification

Epstein-Barr TK Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P03177

Epstein-Barr TK Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 3783741

Other Names
Thymidine kinase, TK

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8100a was selected from the N-term region of Epstein-Barr thymidine kinase . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Epstein-Barr TK Antibody (N-term) Blocking Peptide - Protein Information

Name TK {ECO:0000255|HAMAP-Rule:MF_04029}

Function
Catalyzes the transfer of the gamma-phospho group of ATP to thymidine to generate dTMP in the salvage pathway of pyrimidine synthesis. The dTMP serves as a substrate for DNA polymerase during viral DNA replication. Allows the virus to be reactivated and to grow in non-proliferative cells lacking a high concentration of phosphorylated nucleic acid precursors.

Cellular Location
Virion tegument. Host nucleus. Note=Localizes to the centrosome and more precisely to the periphery of the centriole, tightly encircling the tubulin-rich centrioles

Epstein-Barr TK Antibody (N-term) Blocking Peptide - Protocols

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Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

Epstein-Barr TK Antibody (N-term) Blocking Peptide - Images

Epstein-Barr TK Antibody (N-term) Blocking Peptide - 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. TK is responsible for catalyzing the phosphorylation of thymidine, which functions as a part of the pyrimidine salvage pathway involved in DNA synthesis.

Epstein-Barr TK Antibody (N-term) Blocking Peptide - References

Littler, E., et al., EMBO J. 5(8):1959-1966 (1986).Bankier, A.T., et al., Mol. Biol. Med. 1(1):21-45 (1983).