DATASHEET

Thymidine Kinase 1 Rabbit Monoclonal Antibody(ARA612)

CAT. NO. ARA6311

KEY FEATURES

Target:	Thymidine Kinase 1 (TK1)	**Clone ID:**	ARA612
Source/Host:	Rabbit	**Reactivity:**	Human
Clonality:	Monoclonal	**Applications:**	IHC
Storage:	at-20°C		

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.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

IHC	1:200-1:1000

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	Rabbit monoclonal antibody to Thymidine Kinase 1 (TK1)
Specificity	Recognizes Thymidine Kinase 1 / TK1
Antibody Type	Primary antibody, Recombinant
Immunogen	Recombinant protein within Human Thymidine Kinase 1 / TK1
Molecular Weight	Predicted band size: 25 kDa
Purification	Protein A affinity purified
Isotype	IgG
Form/Buffer	50% Glycerol/PBS with 1% BSA and 0.09% sodium azide
Localization	Cytoplasm
Gene Symbol	TK1
Entrez Gene	7083(Human)
SwissProt	P04183(Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

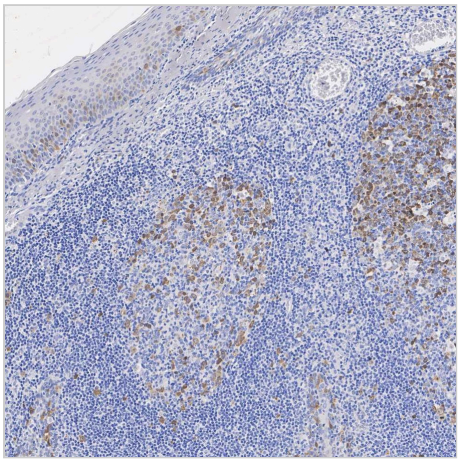
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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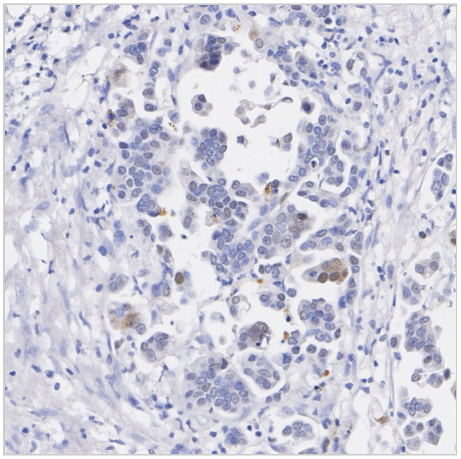
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Immunohistochemical analysis of paraffin-embedded human tonsil tissue using Thymidine Kinase 1 Rabbit Monoclonal Antibody(ARA612) at 1:1,000 dilution. Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0) for 20 minutes, followed by HRP polymer detection and DAB chromogen.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue using Thymidine Kinase 1 Rabbit Monoclonal Antibody(ARA612) at 1:1,000 dilution. Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0) for 20 minutes, followed by HRP polymer detection and DAB chromogen.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com