



Rabbit Anti-MATK antibody

SL5751R

Product Name:	MATK
Chinese Name:	酪氨酸蛋白激酶细胞分裂素抗体
Alias:	CHK; Csk homologous kinase; Csk type protein tyrosine kinase; CTK; Hematopoietic consensus tyrosine lacking kinase; HHYLTk; Hydroxyaryl protein kinase; HYL; HYL tyrosine kinase; HYLTK; Leukocyte carboxyl terminal src kinase related; Lsk; Megakaryocyte associated tyrosine kinase; Megakaryocyte associated tyrosine protein kinase; Protein kinase HYL; Tyrosine kinase MATK; Tyrosine protein kinase CTK; Tyrosylprotein kinase; MATK HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	56kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MATK:411-507/507
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The protein encoded by this gene has amino acid sequence similarity to Csk tyrosine kinase and has the structural features of the CSK subfamily: SRC homology SH2 and

SH3 domains, a catalytic domain, a unique N terminus, lack of myristylation signals, lack of a negative regulatory phosphorylation site, and lack of an autophosphorylation site. MATK is thought to play a significant role in the signal transduction of hematopoietic cells. It is able to phosphorylate and inactivate Src family kinases, and may play an inhibitory role in the control of T-cell proliferation. This protein might be involved in signaling in some cases of breast cancer.

Function:

Could play a significant role in the signal transduction of hematopoietic cells. May regulate tyrosine kinase activity of SRC-family members in brain by specifically phosphorylating their C-terminal regulatory tyrosine residue which acts as a negative regulatory site. It may play an inhibitory role in the control of T-cell proliferation.

Subunit:

Interacts with KIT.

Subcellular Location:

Cytoplasm. Membrane. Note=In platelets, 90% of MATK localizes to the membrane fraction, and translocates to the cytoskeleton upon thrombin stimulation.

Tissue Specificity:

Expressed in various myeloid cell lines, detected in brain and lung.

Similarity:

Belongs to the protein kinase superfamily. Tyr protein kinase family. CSK subfamily.

Contains 1 protein kinase domain.

Contains 1 SH2 domain.

Contains 1 SH3 domain.

SWISS:

P42679

Gene ID:

4145

Database links:

[Entrez Gene: 4145](#)Human

[Entrez Gene: 17179](#)Mouse

[Omicron: 600038](#)Human

[SwissProt: P42679](#)Human

[SwissProt: P41242](#)Mouse

[Unigene: 631845](#)Human

[Unigene: 2918](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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