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Mouse Matk Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14271b

Product Information

Application	WB, IHC-P, E
Primary Accession	P41242
Other Accession	P41243, NP_034898.1
Reactivity	Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34838
Calculated MW	56056
Antigen Region	477-505

Additional Information

Gene ID	17179
Other Names	Megakaryocyte-associated tyrosine-protein kinase, Protein kinase NTK, Tyrosine-protein kinase CTK, Matk, Ctk, Ntk
Target/Specificity	This Mouse Matk antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 477-505 amino acids from the C-terminal region of mouse Matk.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Mouse Matk Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Matk
Synonyms	Ctk, Ntk

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.
Cellular Location	Cytoplasm. Membrane. Note=In platelets, 90% of MATK localizes to the membrane fraction, and translocates to the cytoskeleton upon thrombin stimulation.
Tissue Location	Most abundant in brain, and to a lesser extent in the spleen, the thymus and the liver. Also found in the T-cell lineage

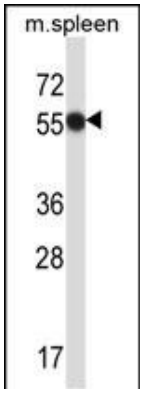
Background

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.

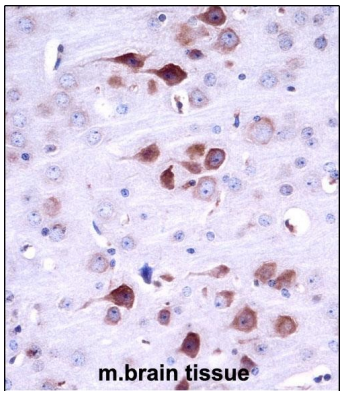
References

Lee, B.C., et al. Blood 108(3):904-907(2006)
Robinson, D.R., et al. Oncogene 19(49):5548-5557(2000)
Puttagunta, R., et al. Genome Res. 10(9):1369-1380(2000)
Samokhvalov, I., et al. Biochem. Mol. Biol. Int. 43(1):115-122(1997)
Kozak, C.A., et al. Mamm. Genome 7(2):164-165(1996)

Images



Mouse Matk Antibody (C-term) (Cat. #AP14271b) western blot analysis in mouse spleen tissue lysates (35ug/lane).This demonstrates the Matk antibody detected the Matk protein (arrow).



Mouse Matk Antibody (C-term) (AP14271b)immunohistochemistry analysis in formalin fixed and paraffin embedded mouse brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of Mouse Matk Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.