

**MATK Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7714A**

**Specification**

---

**MATK Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P42679</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	56469
Antigen Region	1-30

**MATK Antibody (N-term) - Additional Information**

**Gene ID** 4145

**Other Names**

Megakaryocyte-associated tyrosine-protein kinase, CSK homologous kinase, CHK, Hematopoietic consensus tyrosine-lacking kinase, Protein kinase HYL, Tyrosine-protein kinase CTK, MATK, CTK, HYL

**Target/Specificity**

This MATK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human MATK.

**Dilution**

WB~~1:1000

**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**

MATK Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**MATK Antibody (N-term) - Protein Information**

**Name** MATK

**Synonyms** CTK, HYL

**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**

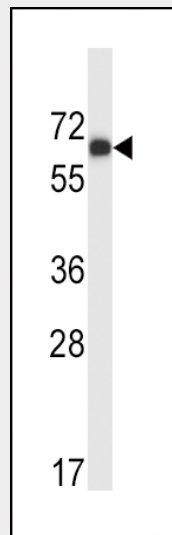
Expressed in various myeloid cell lines, detected in brain and lung

### **MATK Antibody (N-term) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **MATK Antibody (N-term) - Images**



MATK Antibody (M1) (Cat. #AP7714a) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the MATK antibody detected the MATK protein (arrow).

### **MATK Antibody (N-term) - Background**

MATK 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. This protein 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.

#### **MATK Antibody (N-term) - References**

- Kim, S., et al., J. Biol. Chem. 277(39):36465-36470 (2002).  
Zagozdzon, R., et al., Int. J. Oncol. 21(6):1347-1352 (2002).  
Zrihan-Licht, S., et al., J. Biol. Chem. 272(3):1856-1863 (1997).  
Jhun, B.H., et al., J. Biol. Chem. 270(16):9661-9666 (1995).  
Avraham, S., et al., J. Biol. Chem. 270(4):1833-1842 (1995).