

**MATK Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1321a****Specification**

---

**MATK Antibody - Product Information**

Application	<b>WB, FC, E</b>
Primary Accession	<a href="#">P42679</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>56kDa KDa</b>

**Description**

MATK (megakaryocyte-associated tyrosine kinase), also known as CTK, this protein 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.

**Immunogen**

Purified recombinant fragment of human MATK expressed in E. Coli.

**Formulation**

Antibody are purified by protein G affinity chromatography.   
Liquid in PBS containing 50% glycerol and 0.03% sodium azide.

**MATK Antibody - Additional Information**

**Gene ID** 4145

**Other Names**

Megakaryocyte-associated tyrosine-protein kinase, 2.7.10.2, CSK homologous kinase, CHK, Hematopoietic consensus tyrosine-lacking kinase, Protein kinase HYL, Tyrosine-protein kinase CTK, MATK, CTK, HYL

**Dilution**

WB~~1/500 - 1/2000

FC~~1/200 - 1/400

E~~N/A

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

MATK Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## MATK Antibody - 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 - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

## MATK Antibody - Images

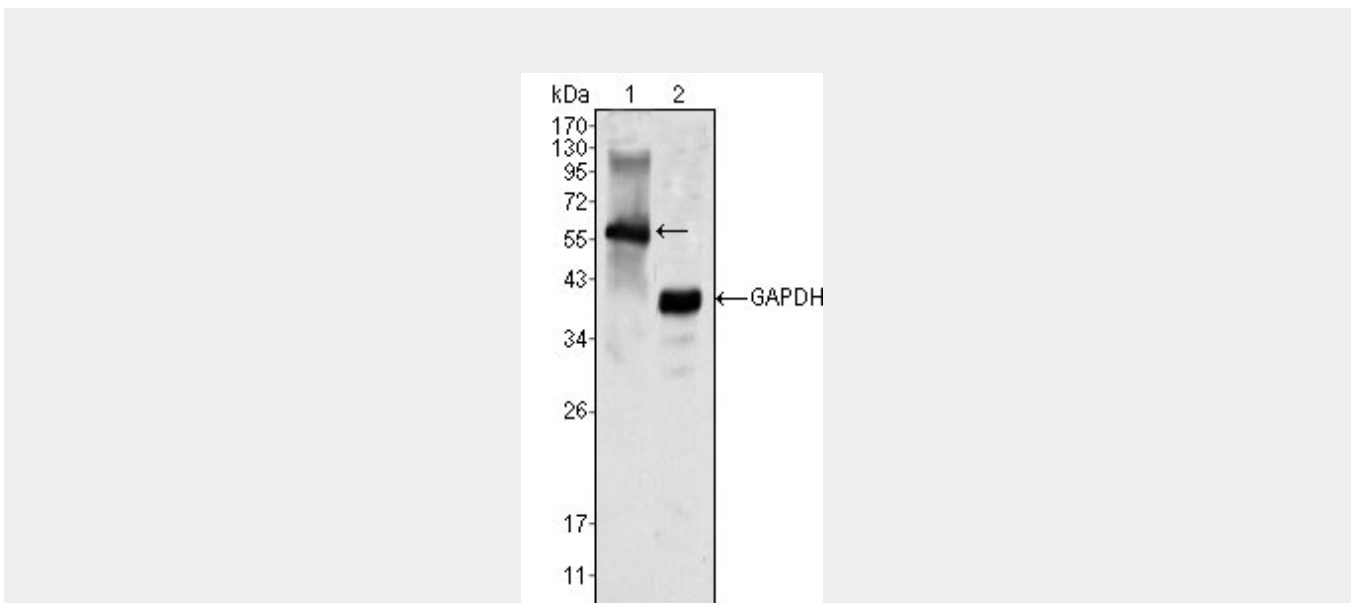


Figure 1: Western blot analysis using MATK mouse mAb against K562 cell lysate (1).

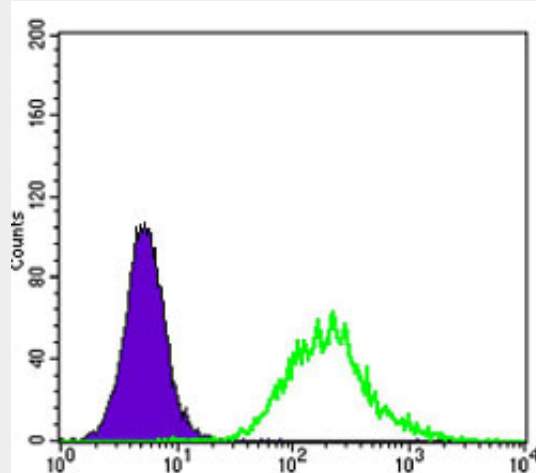


Figure 2: Flow cytometric analysis of K562 cells using MATK mouse mAb (green) and negative control (purple).

#### **MATK Antibody - References**

1. Int J Oncol. 2002 Jul;21(1):197-205.
2. Proc Natl Acad Sci U S A. 2002 Dec 24;99(26):16899-903.
3. Nat Genet. 2004 Jan;36(1):40-5.

#### **MATK Antibody - Citations**

- [Syringin exerts neuroprotective effects in a rat model of cerebral ischemia through the FOXO3a/NF-κB pathway](#)