

MATK Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP7714c**Specification**

MATK Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P42679](#)**MATK Antibody (Center) Blocking Peptide - 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

The synthetic peptide sequence used to generate the antibody [AP7714c](/product/products/AP7714c) was selected from the Center region of human MATK. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MATK Antibody (Center) Blocking Peptide - 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 (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

MATK Antibody (Center) Blocking Peptide - Images**MATK Antibody (Center) Blocking Peptide - 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 (Center) Blocking Peptide - 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).