

Product datasheet

Recombinant human MATK protein ab204136

[5 Images](#)

Description

Product name	Recombinant human MATK protein
Biological activity	The specific activity of MATK was determined to be 11 nmol /min/mg as per activity assay protocol.
Purity	> 85 % Densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	<u>P42679</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MAGRGSLSVSWRAFHGCDSAEELPRVSPRFLRAWHPPPV SARMPTRRWAPG TQCITKCEHTRPKPGELAFRKGDVVILEACENKSWYRVK HHTSGQEGLL AAGALREREALSADPKLSLMPWFHKGISGQEAVQQQLQPP EDGLFLVRESA RHPGDYVLCVSFGRDVIHYRVLHRDGHLTIDEAVFFCNLM DMVEHYSKDK GAICTKLVPRPKRKHGTKSAEEELARAGWLLNLQHLTLGAQ IGEGEFGAVL QGEYLGQKVAVKNIKCDVTAQAFLDETAVMTKMQHENLV RLLGVILHQGL YVMEHVSKGNLVNFLRTRGRALVNTAQLLQFSLHVAEGM EYLESKCLVH RDLAARNILVSEDLVAKVSDFGLAKAERKGLDSSRLPVK WTAPEALKHGK FTSKSDVWSFGVLLWEVFSYGRAPYPKMSLKEVSEAVE KGYRMEPPEGCP GPVHVLMSSCWEAEPARRPPFRKLAEKLARELRSAGAP ASVSGQDADGST SPRSQEP
Predicted molecular weight	83 kDa including tags
Amino acids	1 to 507

Tags GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab204136** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications Functional Studies

SDS-PAGE

Form Liquid

Additional notes **ab204877** (Poly (4:1 Glu, Tyr) peptide) can be utilized as a substrate for assessing kinase activity

Preparation and Storage

Stability and Storage Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.

pH: 7.50

Constituents: 0.79% Tris HCl, 0.87% Sodium chloride, 0.31% Glutathione, 0.003% EDTA, 0.004% DTT, 0.002% PMSF, 25% Glycerol (glycerin, glycerine)

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

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.

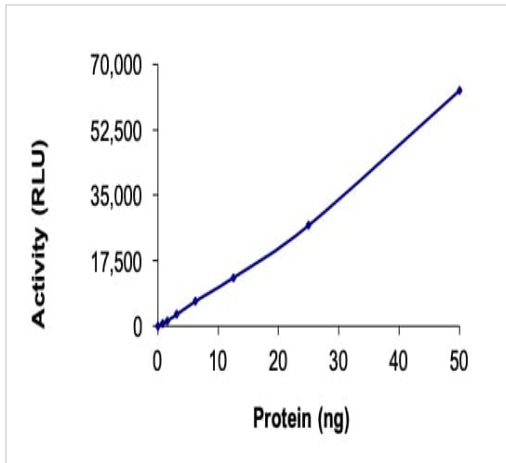
Tissue specificity Expressed in various myeloid cell lines, detected in brain and lung.

Sequence similarities 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.

Post-translational modifications Phosphorylated upon DNA damage, probably by ATM or ATR.

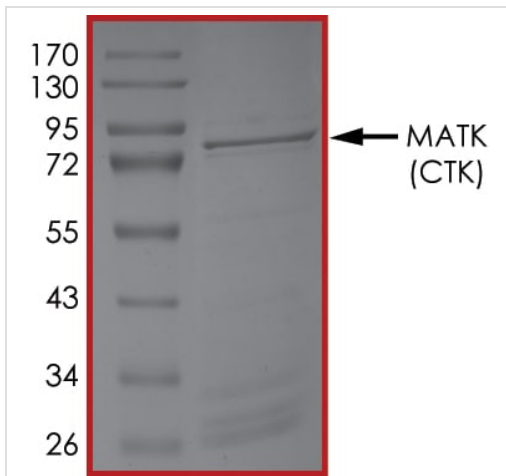
Cellular localization Cytoplasm.

Images



The specific activity of MATK (ab204136) was determined to be 3.8 nmol/min/mg as per activity assay protocol and was equivalent to 12 nmol/min/mg as per radiometric assay

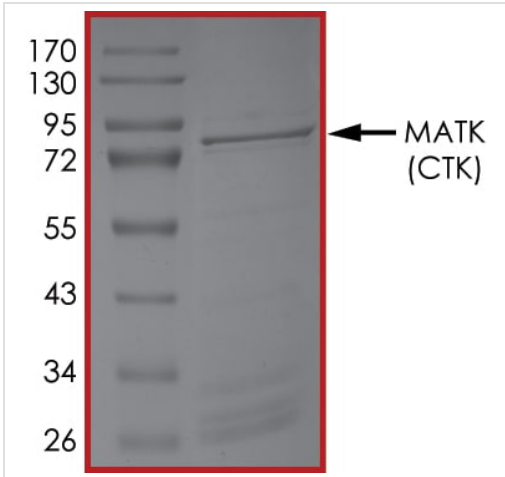
Functional Studies - Recombinant human MATK protein (ab204136)



SDS PAGE analysis of ab204136

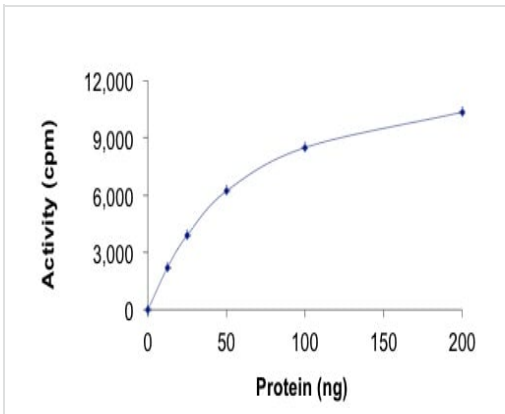
SDS-PAGE - Recombinant human MATK protein (ab204136)

SDS PAGE analysis of ab204136



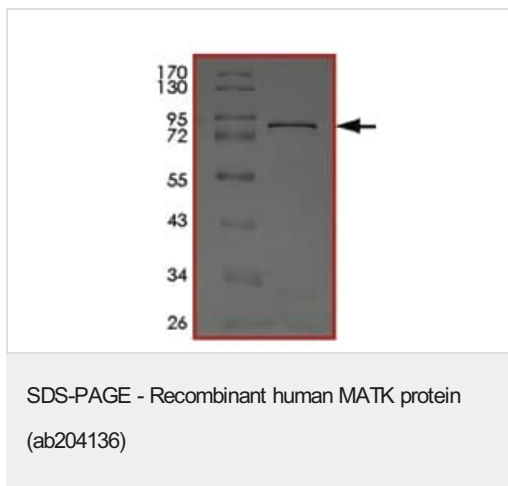
SDS-PAGE - Recombinant human MATK protein (ab204136)

The specific activity of ab204136 was determined to be 11 nmol /min/mg.



Functional Studies - Recombinant human MATK protein (ab204136)

SDS-PAGE showing ab204136.



Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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