

Recombinant human TNIK protein ab119725

5 图像

描述

产品名称	重组人TNIK蛋白
生物活性	ab119725 specific activity determined to be 68 nmol/min/mg.
纯度	> 95 % SDS-PAGE. The purity was determined to be 95% by densitometry. Affinity purified.
表达系统	Baculovirus infected Sf9 cells
Accession	<u>Q9UKE5</u>
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
预测分子量	67 kDa including tags
氨基酸	1 to 367
标签	GST tag N-Terminus

技术指标

Our [Abpromise guarantee](#) covers the use of **ab119725** in the following tested applications.

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

应用	Western blot Functional Studies SDS-PAGE
形式	Liquid
补充说明	<u>ab64311</u> (Myelin Basic Protein protein) can be utilized as a substrate for assessing kinase activity

制备和贮存

稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.31% Glutathione, 0.002% PMSF, 0.003% DTT, 0.79% Tris HCl, 0.003% EDTA,
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25% Glycerol (glycerin, glycerine), 0.88% Sodium chloride

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

常规信息

功能

Serine/threonine kinase that acts as an essential activator of the Wnt signaling pathway. Recruited to promoters of Wnt target genes and required to activate their expression. May act by phosphorylating TCF4/TCF7L2. Appears to act upstream of the JUN N-terminal pathway. May play a role in the response to environmental stress. Part of a signaling complex composed of NEDD4, RAP2A and TNIK which regulates neuronal dendrite extension and arborization during development. More generally, it may play a role in cytoskeletal rearrangements and regulate cell spreading.

组织特异性

Expressed ubiquitously. Highest levels observed in heart, brain and skeletal muscle. Expressed in normal colonic epithelia and colorectal cancer tissues.

序列相似性

Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. Contains 1 CNH domain.
Contains 1 protein kinase domain.

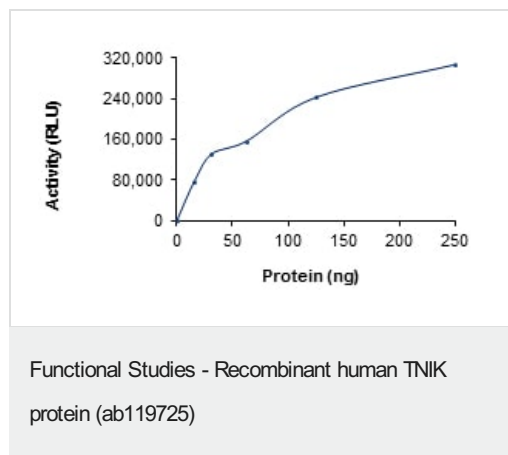
翻译后修饰

Autophosphorylated. Autophosphorylation is activated by RAP2A and induces association to the cytoskeletal fraction.

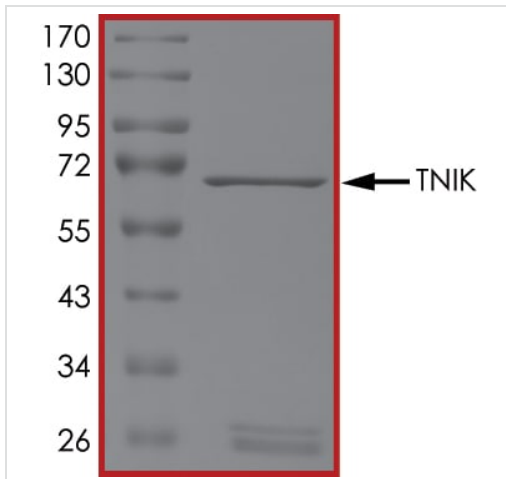
细胞定位

Nucleus. Cytoplasm. Recycling endosome. Cytoplasm > cytoskeleton. Associated with recycling endosomes and the cytoskeletal fraction upon RAP2A overexpression.

图片

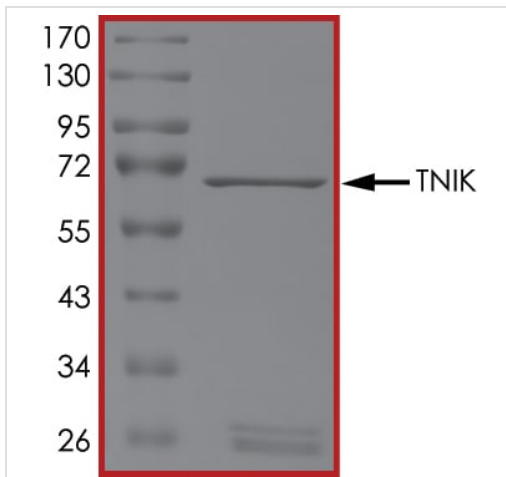


The specific activity of TNIK (ab119725) was determined to be 50 nmol/min/mg as per activity assay protocol and was equivalent to 58 nmol/min/mg as per radiometric assay



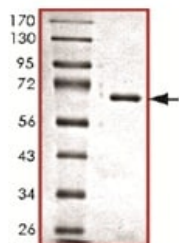
SDS PAGE analysis of ab119725

SDS-PAGE - Recombinant human TNIK protein
(ab119725)



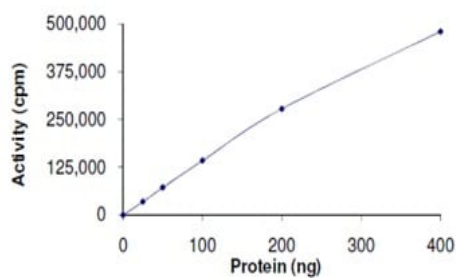
SDS PAGE analysis of ab119725

SDS-PAGE - Recombinant human TNIK protein
(ab119725)



SDS Page analysis of ab119725

SDS-PAGE - Recombinant human TNIK protein
(ab119725)



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Functional Studies - Recombinant human TNIK
protein (ab119725)

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