

Recombinant human TNIK protein ab119725

画像数 5

製品の詳細

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|-------------|---|
| 製品名 | Recombinant human TNIK protein |
| 生理活性 | ab119725 specific activity determined to be 68 nmol/min/mg. |
| 精製度 | > 95 % SDS-PAGE. The purity was determined to be 95% by densitometry. Affinity purified. |
| 発現系 | Baculovirus infected Sf9 cells |
| アクセッション番号 | <u>Q9UKE5</u> |
| タンパク質長 | Protein fragment |
| Animal free | No |
| 由来 | Recombinant |
| 生物種 | Human |
| 予測される分子量 | 67 kDa including tags |
| 領域 | 1 to 367 |
| タグ | GST tag N-Terminus |

特性

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.

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| アプリケーション | Western blot Functional Studies SDS-PAGE |
| 製品の状態 | Liquid |
| 備考 | <u>ab64311</u> (Myelin Basic Protein protein) can be utilized as a substrate for assessing kinase activity |

前処理および保存

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| 保存方法および安定性 | 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, |
|------------|---|

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.

関連情報

機能

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.

組織特異性

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

配列類似性

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

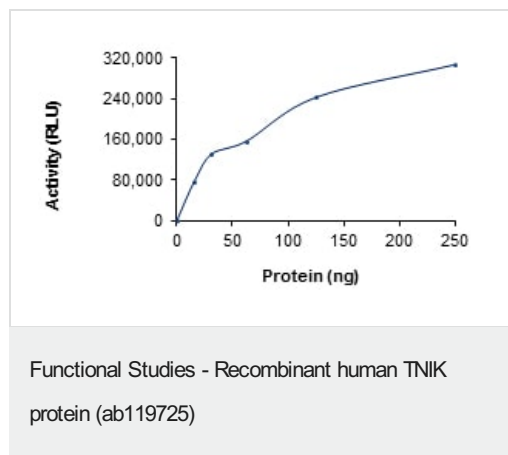
翻訳後修飾

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

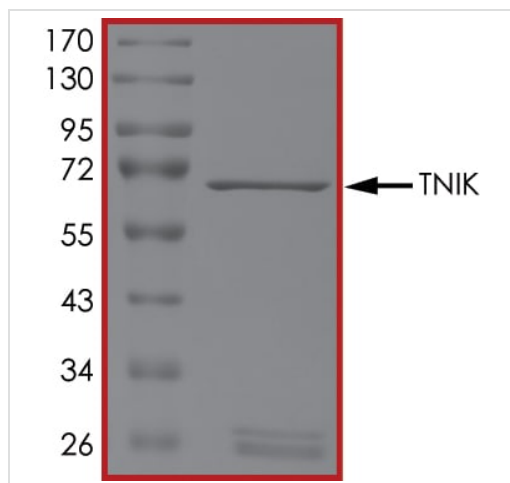
細胞内局在

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

画像

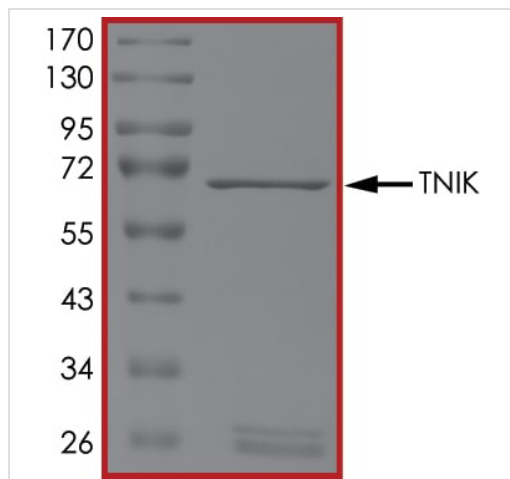


The specific activity of TNIK (ab119725) was determined to be 50 nmol/min/mg as per activity assay protocol and was equivalent to 58 nmol/min/mg as per radiometric assay



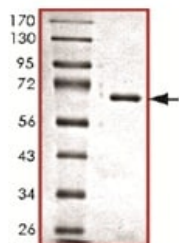
SDS PAGE analysis of ab119725

SDS-PAGE - Recombinant human TNIK protein
(ab119725)



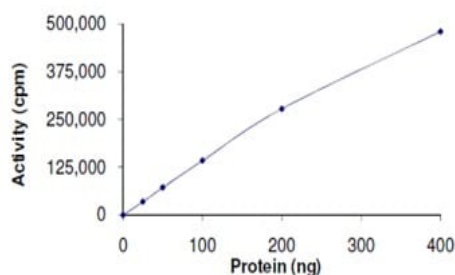
SDS PAGE analysis of ab119725

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)

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

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