

Recombinant human VRK1 protein ab125555

[1 References](#) [2 Images](#)

Description

Product name	Recombinant human VRK1 protein
Biological activity	The specific activity of ab125555 was determined to be 2 nmol/min/mg.
Purity	> 95 % Densitometry. Purity was determined to be >95% by densitometry.
Expression system	Baculovirus infected Sf9 cells
Accession	<u>Q99986</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	71 kDa including tags
Amino acids	1 to 396

Specifications

Our **Abpromise guarantee** covers the use of **ab125555** in the following tested applications.

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

Applications	Western blot Functional Studies SDS-PAGE
Form	Liquid
Additional notes	<u>ab91090</u> (Cow Casein full length protein) can be utilized as a substrate for assessing Kinase activity

Preparation and Storage

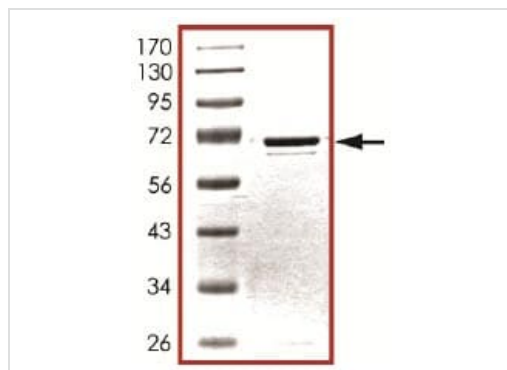
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.31% Glutathione, 0.002% PMSF, 0.004% DTT, 0.79% Tris HCl, 0.003% EDTA, 25% Glycerol (glycerin, glycerine), 0.88% Sodium chloride
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This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

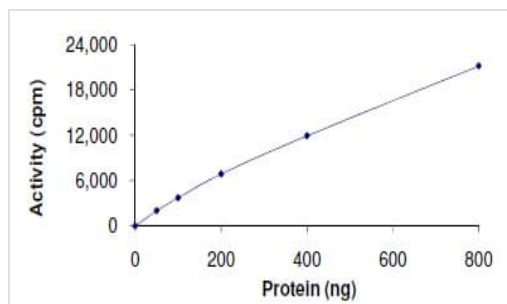
Function	Serine/threonine kinase that phosphorylates 'Thr-18' of p53/TP53 and may thereby prevent the interaction between p53/TP53 and MDM2.
Tissue specificity	Widely expressed. Highly expressed in fetal liver, testis and thymus.
Involvement in disease	Defects in VRK1 are the cause of pontocerebellar hypoplasia type 1 (PCH1) [MIM:607596]; also called pontocerebellar hypoplasia with infantile spinal muscular atrophy or pontocerebellar hypoplasia with anterior horn cell disease. PCH1 is characterized by an abnormally small cerebellum and brainstem, central and peripheral motor dysfunction from birth, gliosis and anterior horn cell degeneration resembling infantile spinal muscular atrophy (SMA).
Sequence similarities	Belongs to the protein kinase superfamily. CK1 Ser/Thr protein kinase family. VRK subfamily. Contains 1 protein kinase domain.
Post-translational modifications	Autophosphorylated at various serine and threonine residues. Autophosphorylation does not impair its ability to phosphorylate p53/TP53.
Cellular localization	Nucleus. Dispersed throughout the cell but not located on mitotic spindle or chromatids during mitosis.

Images



SDS-PAGE analysis of ab125555.

SDS-PAGE - Recombinant human VRK1 protein
(ab125555)



Sample Kinase Assay showing the Specific Activity of ab125555 to be 2 nmol/min/mg.

Functional Studies - Recombinant human VRK1
protein (ab125555)

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

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