

Recombinant human PERK protein ab101115

画像数 5

製品の詳細

製品名	Recombinant human PERK protein		
生理活性	The specific activity of ab101115 was determined to be 18 nmol/min/mg by activity assay.		
精製度	> 90 % SDS-PAGE. The purity was determined to be >90% by densitometry		
発現系	Escherichia coli		
アクセッション番号	<u>Q9NZJ5</u>		
タンパク質長	Protein fragment		
Animal free	No		
由来	Recombinant		
生物種	Human		
配列	NKYDSVSGEANDSSWNDIKNSGYISRYLTDFEPIQCLGRGGF GVVFEAKN KVDDCNYAIKRIRLPNRELAREKVMREVKALAKLEHPGIVRY FNAWLEAP PEKWQEKMDEIWLKDESTDWPLSSPSPMDAPSVKIRMDPFA TKEHIEII APSPQRSRSFSVGISCDQTSSSESQFSPLEFSGMDHEDISES VDAAYNLQ DSCLTDCDVEDGTMDGNDEGHSELCPSSEASPYVRSRERTSS SIVFEDSG CDNASSKEEPKTNRHLHIGNHCANKLTAFKPTSSKSSSEATLS ISPPRPTT LSLDLTKNTTEKLQPSSPKVYLYIQMLCRKENLKDWMNGRC TIEERERS VCLHIFLQIAEAVEFLHSKGLMHRDLKPSNIFFTMDDVVKVG DFGLVTAM DQDEEEQTVLTPMPAYARHTGQVGTKLYMSPEQIHGNSYSHK VDIFSLGL ILFELLYPFSTQMERVRTLTDVRNLKFPPLFTQKYPCEYVMV QDMLSPSP MERPEAINIIENAVFEDLDFPGKTVLRQRSRSLSSSGTKHSR QSNNSHSP LPSN		
予測される分子量	115 kDa including tags		

領域 563 to 1115

特性

Our **Abpromise guarantee** covers the use of **ab101115** in the following tested applications.

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

アプリケーション Western blot
SDS-PAGE
Functional Studies

製品の状態 Liquid

備考 **ab61428** (Human Smad3 full length protein) can be utilized as a substrate for assessing Kinase activity

前処理および保存

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: 0.307% Glutathione, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% 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 Phosphorylates the alpha subunit of eukaryotic translation-initiation factor 2 (EIF2), leading to its inactivation and thus to a rapid reduction of translational initiation and repression of global protein synthesis. Serves as a critical effector of unfolded protein response (UPR)-induced G1 growth arrest due to the loss of cyclin D1.

組織特異性 Ubiquitous. A high level expression is seen in secretory tissues.

関連疾患 Defects in EIF2AK3 are the cause of Wolcott-Rallison syndrome (WRS) [MIM:226980]; also known as multiple epiphyseal dysplasia with early-onset diabetes mellitus. WRS is a rare autosomal recessive disorder, characterized by permanent neonatal or early infancy insulin-dependent diabetes and, at a later age, epiphyseal dysplasia, osteoporosis, growth retardation and other multisystem manifestations, such as hepatic and renal dysfunctions, mental retardation and cardiovascular abnormalities.

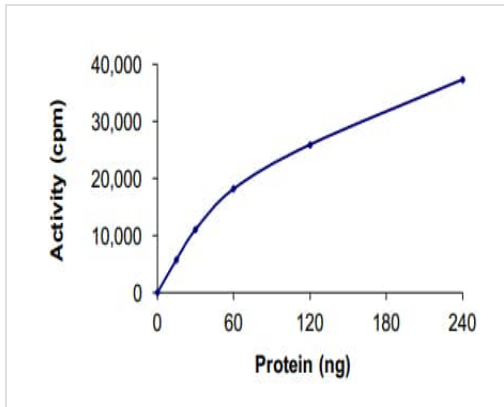
配列類似性 Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. GCN2 subfamily. Contains 1 protein kinase domain.

ドメイン The luminal domain senses perturbations in protein folding in the ER, probably through reversible interaction with HSPA5/BIP.

翻訳後修飾 Autophosphorylated.
N-glycosylated.

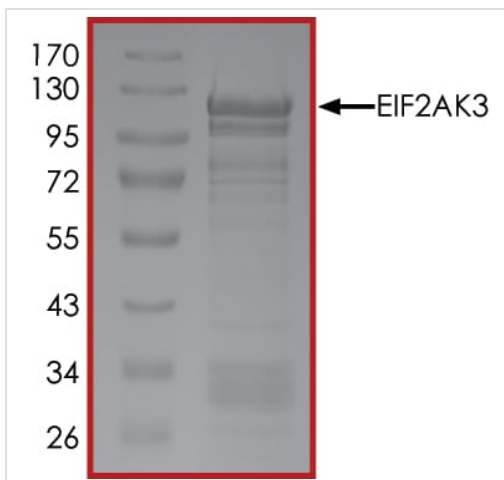
細胞内局在 Endoplasmic reticulum membrane.

画像



The specific activity of PERK (ab101115) was determined to be 16 nmol/min/mg as per activity assay protocol

Functional Studies - Recombinant human PERK protein (ab101115)



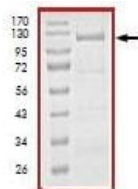
SDS PAGE analysis of ab101115

SDS-PAGE - Recombinant human PERK protein (ab101115)



SDS PAGE analysis of ab101115

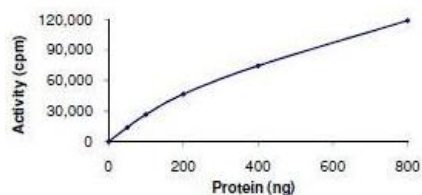
SDS-PAGE - Recombinant human PERK protein (ab101115)



SDS-PAGE - Recombinant human PERK protein
(ab101115)

The purity of ab101115 was determined to be 90% by densitometry.

Approximate MWt: 115kDa



Functional Studies - Recombinant human PERK
protein (ab101115)

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nmol/min/mg by activity assay.

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