abcam

Product datasheet

Recombinant human Dystrophia myotonica protein kinase / DMPK ab85755

画像数 5

製品の詳細

製品名	Recombinant human Dystrophia myotonica protein kinase / DMPK
生理活性	The Specific activity of ab85755 was determined to be 4.5 nmol/min/mg.
精製度	> 80 % Densitometry. Affinity purified.
発現系	Baculovirus infected Sf9 cells
アクセッション番号	Q09013-16
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human

特性

Our **Abpromise guarantee** covers the use of **ab85755** 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 Functional Studies SDS-PAGE
製品の状態	Liquid
備考	**ab204853** (IRS1 peptide) can be utilized as a substrate for assessing kinase activity

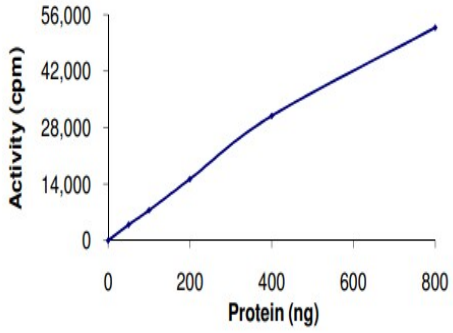
前処理および保存

保存方法および安定性	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.0038% EGTA, 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

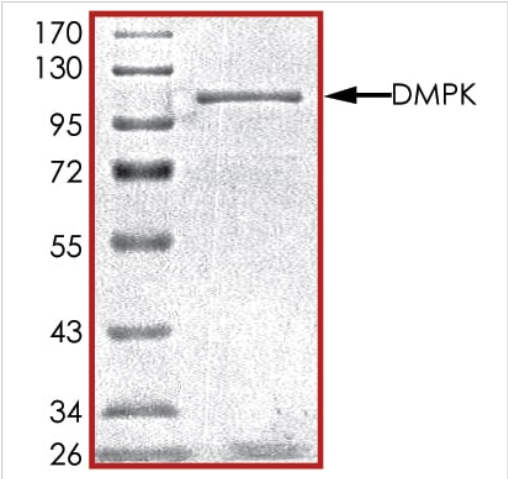
機能	Critical to the modulation of cardiac contractility and to the maintenance of proper cardiac conduction activity. Phosphorylates phospholamban.
組織特異性	Most isoforms are expressed in many tissues including heart, skeletal muscle, liver and brain, except for isoform 2 which is only found in the heart and skeletal muscle, and isoform 14 which is only found in the brain, with high levels in the striatum, cerebellar cortex and pons.
関連疾患	Defects in DMPK are the cause of dystrophia myotonica type 1 (DM1) [MIM:160900]; also known as Steinert disease. A muscular disorder characterized by myotonia, muscle wasting in the distal extremities, cataract, hypogonadism, defective endocrine functions, male baldness and cardiac arrhythmias. Note=The causative mutation is a CTG expansion in the 3'-UTR of the DMPK gene. A length exceeding 50 CTG repeats is pathogenic, while normal individuals have 5 to 37 repeats. Intermediate alleles with 35-49 triplets are not disease-causing but show instability in intergenerational transmissions. Disease severity varies with the number of repeats: mildly affected persons have 50 to 150 repeats, patients with classic DM have 100 to 1,000 repeats, and those with congenital onset can have more than 2,000 repeats.
配列類似性	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. DMPK subfamily. Contains 1 AGC-kinase C-terminal domain. Contains 1 protein kinase domain.

画像



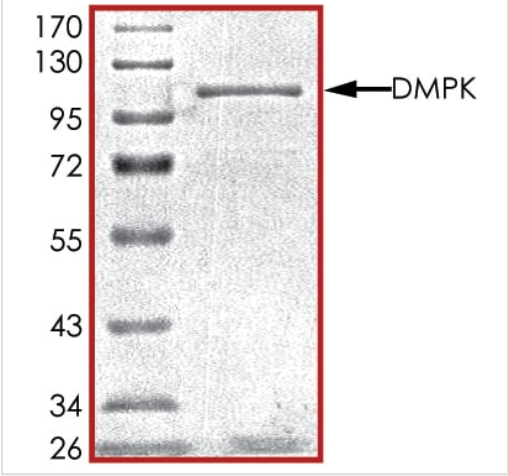
Functional Studies - Recombinant human Dystrophia myotonica protein kinase / DMPK (ab85755)

The specific activity of Dystrophia myotonica protein kinase / DMPK (ab85755) was determined to be 5.2 nmol/min/mg as per activity assay protocol



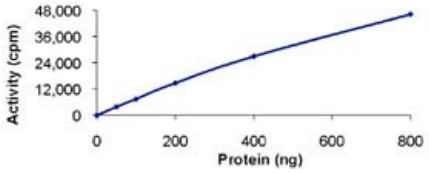
SDS-PAGE - Recombinant human Dystrophia myotonica protein kinase / DMPK (ab85755)

SDS PAGE analysis of ab85755



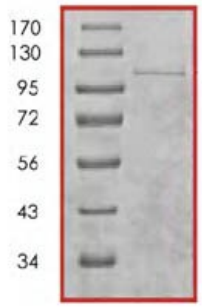
SDS-PAGE - Recombinant human Dystrophia myotonica protein kinase / DMPK (ab85755)

SDS PAGE analysis of ab85755



Functional Studies - Recombinant human Dystrophia myotonica protein kinase / DMPK (ab85755)

The specific activity of ab85755 was determined to be 4.5 nmol/min/mg.



SDS-PAGE - Recombinant human Dystrophia myotonica protein kinase / DMPK (ab85755)

SDS-PAGE showing ab85755 at approximately 105kDa.

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