abcam

Product datasheet

Recombinant human CAMK1G protein ab51400

4 Images

Description

Product name	Recombinant human CAMK1G protein
Biological activity	Specific activity was determined to be 788 nmol/min/mg.
Purity	> 90 % Densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Amino acids	1 to 330

Specifications

Our **Abpromise guarantee** covers the use of **ab51400** in the following tested applications.

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

Applications	SDS-PAGE Functional Studies
Form	Liquid
Additional notes	**ab188554** (CaMKII peptide) can be utilized as a substrate for assessing Kinase activity This product was previously labelled as CaMKI gamma

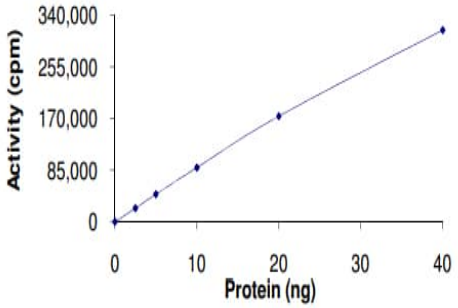
Preparation and Storage

Stability and Storage	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.

General Info

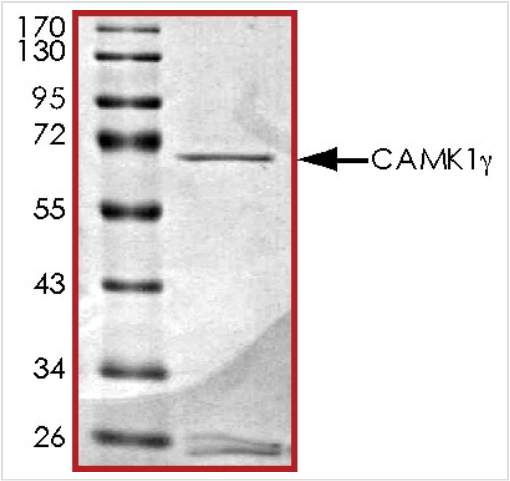
Function	Calcium/calmodulin-dependent protein kinase belonging to a proposed calcium-triggered signaling cascade. In vitro phosphorylates transcription factor CREB1.
Tissue specificity	Mainly expressed in brain with small amounts in skeletal muscles, kidney, spleen and liver. Strongly expressed in forebrain neocortex, striatum and limbic system.
Sequence similarities	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily. Contains 1 protein kinase domain.
Domain	The autoinhibitory domain overlaps with the calmodulin binding region and interacts in the inactive folded state with the catalytic domain as a pseudosubstrate.
Post-translational modifications	May be prenylated on Cys-473.
Cellular localization	Cytoplasm. Golgi apparatus membrane. Cell membrane.

Images



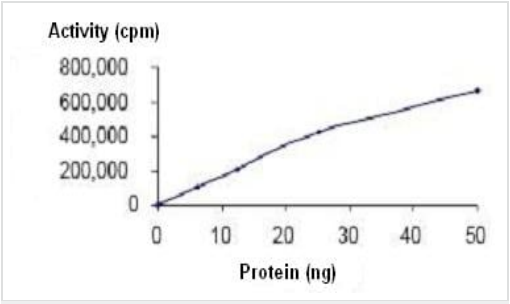
Functional Studies - Recombinant human CAMK1G protein (ab51400)

The specific activity of CAMK1G (ab51400) was determined to be 675 nmol/min/mg as per activity assay protocol



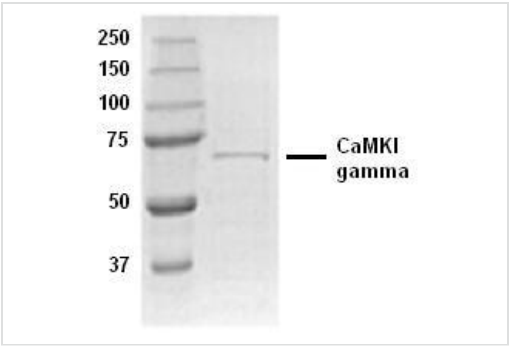
SDS-PAGE - Recombinant human CAMK1G protein (ab51400)

SDS PAGE analysis of ab51400



Functional Studies - Recombinant human CAMK1G protein (ab51400)

Kinase activity assay. Specific activity 788 nmol/min/mg.



SDS-PAGE - Recombinant human CAMK1G protein (ab51400)

Recombinant human CAMK1G (with proprietary tag) molecular weight 69 kDa.

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