Datasheet for ABIN6239876

EIF2AK2 Protein (AA 224-502) (His tag)

1 Image

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Overview

Quantity:	50 µg
Target:	EIF2AK2
Protein Characteristics:	AA 224-502
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This EIF2AK2 protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 80 %
Biological Activity Comment:	Protein Kinase R (PKR) is activated by double-stranded RNA (dsRNA), the synthesis of which is caused virally. PKR can also be activated by the protein PACT or by heparin. It plays a key role in the innate immune response to viral infection and is also involved in the regulation of signal transduction, apoptosis, cell proliferation and differentiation. Besides, Cyclin Dependent Kinase 1 (CDK1) has been identified as an interactor of PKR, thus a binding ELISA assay was conducted to detect the interaction of recombinant human PKR and recombinant human CDK1. Briefly, PKR were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to CDK1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-PKR pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3

Product Details

	times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of of PKR and CDK1 was shown in Figure 1, and this effect was in a dose dependent manner The binding activity of PKR with CDK1.

Target Details

Target:	EIF2AK2
Alternative Name:	Protein Kinase R (PKR) (EIF2AK2 Products)
Background:	Alternative Names: PRKR, PRK-R, EIF2AK2, EIF2AK1, Eukaryotic Translation Initiation Factor 2 Alpha Kinase 2, Interferon-induced, double-stranded RNA-activated protein kinase, P1/eIF-2A kinase
Molecular Weight:	32kDa
UniProt:	P19525
Pathways:	DNA Damage Repair, ER-Nucleus Signaling, Hepatitis C

Application Details

Application Notes:	Isoelectric Point: 8.9
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

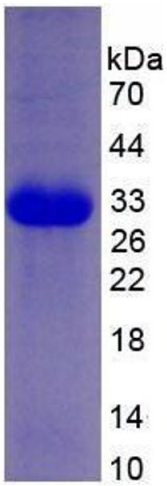

Image 1.