

anti- EIF2AK1 antibody

Product Information

Catalog No.:	FNab02690
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Background

Inhibits protein synthesis at the translation initiation level, in response to various stress conditions, including oxidative stress, heme deficiency, osmotic shock and heat shock. Exerts its function through the phosphorylation of EIF2S1 at 'Ser-48' and 'Ser-51', thus preventing its recycling. Binds heme forming a 1:1 complex through a cysteine thiolate and histidine nitrogenous coordination. This binding occurs with moderate affinity, allowing it to sense the heme concentration within the cell. Thanks to this unique heme-sensing capacity, plays a crucial role to shut off protein synthesis during acute heme-deficient conditions. In red blood cells(RBCs), controls hemoglobin synthesis ensuring a coordinated regulation of the synthesis of its heme and globin moieties. Thus plays an essential protective role for RBC survival in anemias of iron deficiency. Similarly, in hepatocytes, involved in heme-mediated translational control of CYP2B and CYP3A and possibly other hepatic P450 cytochromes. May also contain ER stress during acute heme-deficient conditions(By similarity).

Immunogen information

Immunogen:	eukaryotic translation initiation factor 2-alpha kinase 1
Synonyms:	EIF2AK1, HCR, HRI, eukaryotic translation initiation factor 2-alpha kinase 1
Observed MW:	71 kDa

Wuhan Fine Biotech Co., Ltd.

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Uniprot ID : Q9BQI3

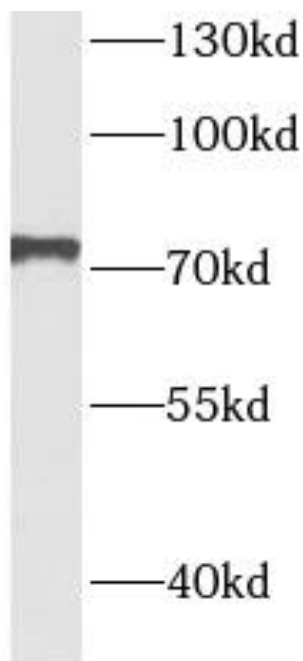
Application

Reactivity: Human, Mouse

Tested Application: ELISA, WB

Recommended dilution: WB: 1:500 - 1:2000

Image:



HL-60 cells were subjected to SDS PAGE followed by western blot with FNab02690(EIF2AK1 antibody) at dilution of 1:1000

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