

## Datasheet for ABIN7152139 anti-EIF2AK1 antibody (AA 1-86) (FITC)



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Overview			
Quantity:	100 μg		
Target:	EIF2AK1		
Binding Specificity:	AA 1-86		
Reactivity:	Human		
Host:	Rabbit		
Clonality:	Polyclonal		
Conjugate:	This EIF2AK1 antibody is conjugated to FITC		
Application:	Please inquire		
Product Details			
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Immunogen:	Recombinant Human Eukaryotic translation initiation factor 2-alpha kinase 1 protein (1-86AA)		
	Recombinant Human Eukaryotic translation initiation factor 2-alpha kinase 1 protein (1-86AA)  IgG		
Immunogen:			
Immunogen: Isotype:	IgG		
Immunogen: Isotype: Cross-Reactivity:	IgG Human		
Immunogen: Isotype: Cross-Reactivity: Purification:	IgG Human		
Immunogen: Isotype: Cross-Reactivity: Purification: Target Details	IgG Human >95%, Protein G purified		
Immunogen: Isotype: Cross-Reactivity: Purification: Target Details Target:	IgG Human >95%, Protein G purified  EIF2AK1		

Exerts its function through the phosphorylation of EIF2S1 at \'Ser-48\' and \'Ser-51\', thus preventing its recycling. Binds hemin 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).

Aliases: E2AK1\_HUMAN antibody, EC 2.7.11.1 antibody, Eif2ak1 antibody, Eukaryotic translation

initiation factor 2 alpha kinase 1 antibody, Eukaryotic translation initiation factor 2-alpha kinase 1 antibody, HCR antibody, Heme controlled repressor antibody, Heme regulated eukaryotic initiation factor elF 2 alpha kinase antibody, Heme regulated inhibitor antibody, Heme regulated initiation factor 2 alpha kinase antibody, Heme regulated repressor antibody, Heme sensitive initiation factor 2a kinase antibody, Heme-controlled repressor antibody, Heme-regulated eukaryotic initiation factor elF-2-alpha kinase antibody, Heme-regulated inhibitor antibody, Hemin sensitive initiation factor 2 alpha kinase antibody, Hemin-sensitive initiation factor 2-alpha kinase antibody, HRI antibody, KIAA1369 antibody, PRO1362 antibody

UniProt:

Q9BQI3

Pathways:

Hepatitis C

## **Application Details**

Restrictions:

For Research Use only

## Handling

Format:	Liquid	
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4	
Preservative:	ProClin	
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Storage:	-20 °C,-80 °C	

Storage Comment:

Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.