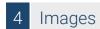


Datasheet for ABIN7152137 anti-EIF2AK1 antibody (AA 1-86)





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Quantity:	100 μg	
Target:	EIF2AK1	
Binding Specificity:	AA 1-86	
Reactivity:	Human	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This EIF2AK1 antibody is un-conjugated	
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)	
Product Details		
Immunogen:	Recombinant Human Eukaryotic translation initiation factor 2-alpha kinase 1 protein (1-86AA)	
Isotype:	IgG	
Cross-Reactivity:	Human, Rat	
Purification:	>95%, Protein G purified	
Target Details		
Target:	EIF2AK1	
Alternative Name:	EIF2AK1 (EIF2AK1 Products)	
Background:	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.	

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, Heme controlled repressor antibody, Heme regulated eukaryotic initiation factor eIF 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 initiation factor 2a kinase antibody, Heme-controlled repressor antibody, Heme-regulated

eukaryotic initiation factor eIF-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

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

UniProt:

Q9BQI3

Pathways:

Hepatitis C

Application Details

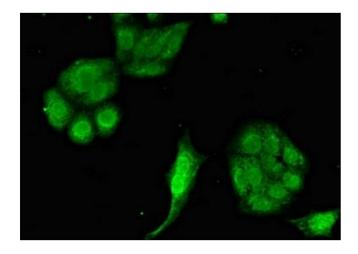
Application Notes:	Recommended dilution: WB:1:500-1:5000, IHC:1:20-1:200, IF:1:50-1:200,	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	Preservative: 0.03 % Proclin 300	
	Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4	
Preservative:	ProClin	
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be	

handled by trained staff only.

Handling

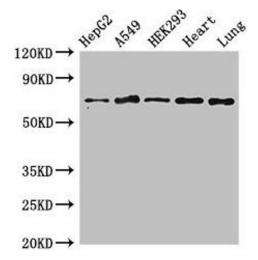
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



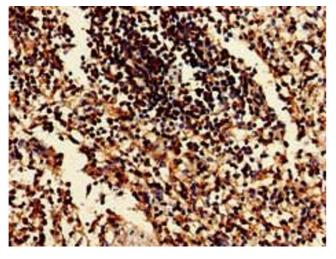
Immunofluorescence

Image 1. Immunofluorescent analysis of HepG2 cells using ABIN7152137 at dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)



Western Blotting

Image 2. Western Blot Positive WB detected in: HepG2 whole cell lysate, A549 whole cell lysate, HEK293 whole cell lysate, Rat heart tissue, Rat lung tissue All lanes: EIF2AK1 antibody at $3 \mu g/mL$ Secondary Goat polyclonal to rabbit lgG at 1/50000 dilution Predicted band size: 72 kDa Observed band size: 72 kDa



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human spleen tissue using ABIN7152137 at dilution of 1:100

Please check the product details page for more images. Overall 4 images are available for ABIN7152137.