

Datasheet for ABIN7073875

**anti-EIF2AK1 antibody**

## 4 Images

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## Overview

|              |  |
|--------------|--|
| Quantity:    | 100 µL   |
| Target:      | EIF2AK1  |
| Reactivity:  | Human, Mouse, Rat  |
| Host:        | Rabbit   |
| Clonality:   | Polyclonal   |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF) |

## Product Details

|                   |   |
|-------------------|---|
| Immunogen:        | Recombinant protein corresponding to Mouse Heme-regulated inhibitor |
| Cross-Reactivity: | Human, Rat  |
| Purification:     | Affinity purification   |

## Target Details

|                   |  |
|-------------------|--|
| Target:           | EIF2AK1  |
| Alternative Name: | Heme-regulated inhibitor ( <a href="#">EIF2AK1 Products</a> )  |
| Background:       | <p>The Eif2ak1 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 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,</p> |

## Target Details

plays a crucial role to shut off protein synthesis during acute heme-deficient conditions. In red blood cells, controls hemoglobin synthesis ensuring a coordinated regulation of the synthesis of its heme and globin moieties.

Molecular Weight: 70 kDa

Gene ID: 15467

NCBI Accession: [NP\\_038585](#)

UniProt: [Q9Z2R9](#)

Pathways: [Hepatitis C](#)

## Application Details

Application Notes: WB (H,M,R) 1 :500-1: 1000, IHC/IF (M,R) 1:800-1:1600/1:500-1:1000

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: PBS, pH 7.4, 0.02 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

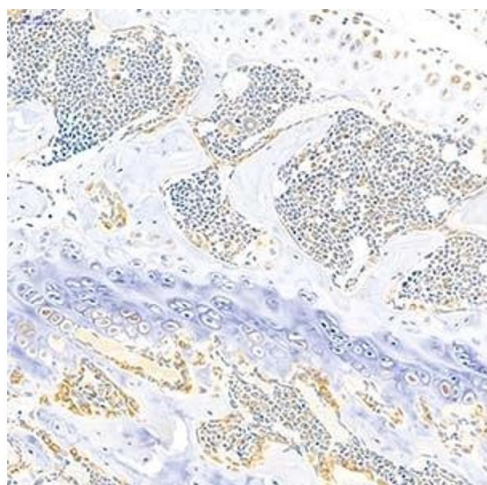
Storage: -20 °C

95 kDa—  
72 kDa—  
55 kDa—  
43 kDa—



#### Western Blotting

**Image 1.** Western blot analysis of Eif2ak1 (ABIN7073875) at dilution of 1: 1000, Lane 1: HEK293 cell lysate



#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 2.** Immunohistochemistry analysis of paraffin-embedded mouse bone using Eif2ak1 (ABIN7073875) at dilution of 1: 1000



#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** Immunohistochemistry analysis of paraffin-embedded mouse inflammation lung using Eif2ak1 (ABIN7073875) at dilution of 1: 1000

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7073875.