

For Research Use Only

# EIF2AK1 Monoclonal antibody, PBS Only



Catalog Number: 67674-1-PBS

## Basic Information

|                                      |  |  |
|--------------------------------------|--|--|
| Catalog Number:<br>67674-1-PBS       | GenBank Accession Number:<br>BC006524                                      | Purification Method:<br>Protein G purification |
| Size:<br>1mg/ml                      | GeneID (NCBI):<br>27102  | CloneNo.:<br>2H1F3                             |
| Source:<br>Mouse                     | UNIPROT ID:<br>Q9BQI3  |  |
| Isotype:<br>IgG1                     | Full Name:<br>eukaryotic translation initiation<br>factor 2-alpha kinase 1 |  |
| Immunogen Catalog Number:<br>AG16970 | Calculated MW:<br>630 aa, 71 kDa   |  |
|                                      | Observed MW:<br>71 kDa   |  |

## Applications

Tested Applications:  
WB, IF, IHC, Indirect ELISA

Species Specificity:  
Human

## Background Information

Eukaryotic initiation factor 2a (eIF2a), which is a critical component in the formation of the translation initiation ternary complex (eIF2a/GTP/methionyl transfer RNA), plays a key role in the ER stress response. EIF2AK1, which is activated by heme deficiency and other stimuli, is a major kinase that phosphorylates EIF2-alpha. Phosphorylation of the alpha subunit of EIF2 downregulates protein synthesis in response to various stress conditions. EIF2AK1 has some isoforms with 630aa, 577aa and 422aa.

## Storage

Storage:  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

Storage Buffer:  
PBS Only

For technical support and original validation data for this product please contact:

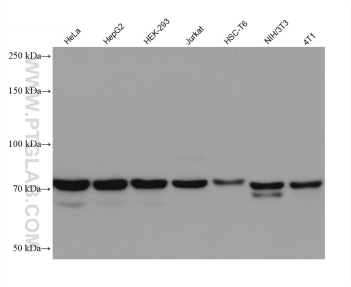
T: 4006900926

E: Proteintech-CN@ptglab.com

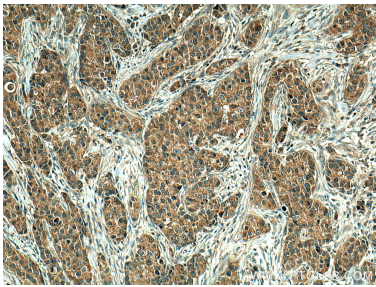
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

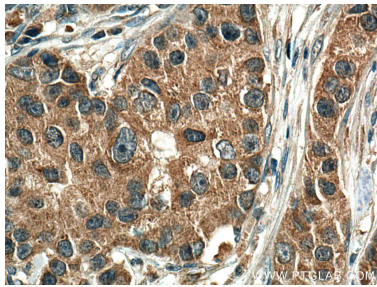
## Selected Validation Data



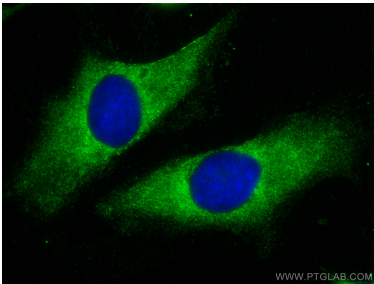
Various lysates were subjected to SDS PAGE followed by western blot with 67674-1-Ig (EIF2AK1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 67674-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67674-1-Ig (EIF2AK1 antibody) at dilution of 1:300 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 67674-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67674-1-Ig (EIF2AK1 antibody) at dilution of 1:300 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 67674-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using EIF2AK1 antibody (67674-1-Ig, Clone: 2H1F3 ) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 67674-1-PBS in a different storage buffer formulation.