

For Research Use Only

# EIF2AK1 Recombinant antibody

Catalog Number: 81768-1-RR

Featured Product



## Basic Information

<b>Catalog Number:</b> 81768-1-RR	<b>GenBank Accession Number:</b> BC006524	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 400 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 27102	<b>CloneNo.:</b> 3J9
<b>Source:</b> Rabbit	<b>Full Name:</b> eukaryotic translation initiation factor 2-alpha kinase 1	<b>Recommended Dilutions:</b> WB 1:1000-1:8000
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 630 aa, 71 kDa	
<b>Immunogen Catalog Number:</b> AG14236	<b>Observed MW:</b> 71 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : HEK-293 cells, HeLa cells, MCF-7 cells
<b>Species Specificity:</b> 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 -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

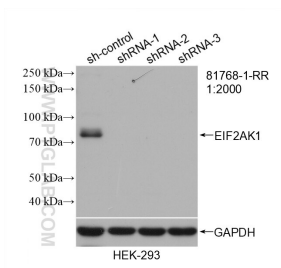
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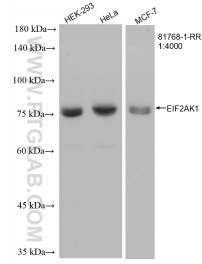
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## Selected Validation Data



WB result of EIF2AK1 antibody (81768-1-RR; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-EIF2AK1 transfected HEK-293 cells.



HEK-293 cells were subjected to SDS PAGE followed by western blot with 81768-1-RR (EIF2AK1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.