

For Research Use Only

# EIF2AK1 Recombinant antibody, PBS Only



Catalog Number: 81768-1-PBS

Featured Product

## Basic Information

Catalog Number:

81768-1-PBS

Size:

100ug, Concentration: 1mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG14236

GenBank Accession Number:

BC006524

GeneID (NCBI):

27102

UNIPROT ID:

Q9BQI3

Full Name:

eukaryotic translation initiation factor 2-alpha kinase 1

Calculated MW:

630 aa, 71 kDa

Observed MW:

71 kDa

Purification Method:

Protein A purification

CloneNo.:

3J9

## Applications

Tested Applications:

Indirect ELISA, WB

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.

Storage Buffer:

PBS Only

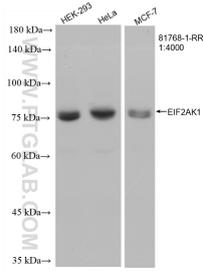
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

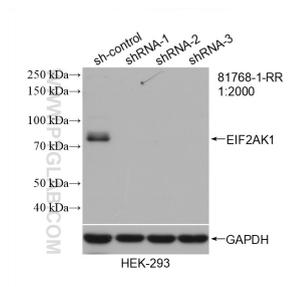
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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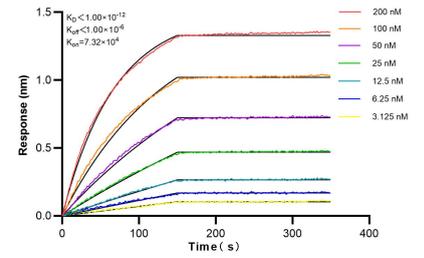
## Selected Validation Data



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. This data was developed using the same antibody clone with 81768-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 81768-1-PBS in a different storage buffer formulation.



Bi-layer interferometry (BLI) kinetic assays of 81768-1-RR against Human EIF2AK1 were performed. The affinity constant is below 1 pM.