

For Research Use Only

EIF2AK1 Recombinant antibody

Catalog Number: 81768-1-RR

Featured Product



Basic Information

Catalog Number:

81768-1-RR

Size:

400 µg/ml

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

Recommended Dilutions:

WB 1:1000-1:8000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : HEK-293 cells, HeLa cells, MCF-7 cells

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

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

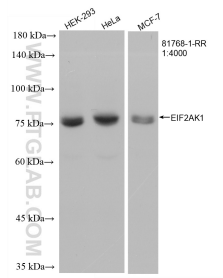
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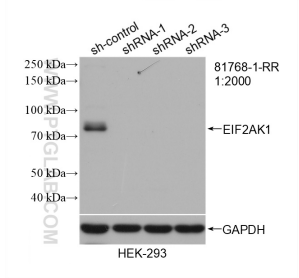
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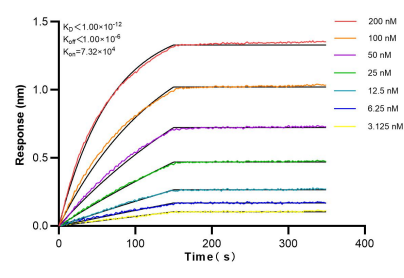
Selected Validation Data



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.



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.



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