

For Research Use Only

# EIF2AK2 Monoclonal antibody

Catalog Number: 66646-1-Ig



## Basic Information

<b>Catalog Number:</b> 66646-1-Ig	<b>GenBank Accession Number:</b> BC093676	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 1700 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5610	<b>CloneNo.:</b> 2A8A4
<b>Source:</b> Mouse	<b>Full Name:</b> eukaryotic translation initiation factor 2-alpha kinase 2	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 551 aa, 62 kDa	
<b>Immunogen Catalog Number:</b> AG13010	<b>Observed MW:</b> 65-68 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

Human

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

### Positive Controls:

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

IHC : human testis tissue, human kidney tissue

## Background Information

The eukaryotic translation initiation factor 2-alpha kinase 2 (EIF2AK2, also known as PKR or PRKR) is an important component of the host innate immune antiviral response. The product of the HSAEIF2AK2 gene is a 68 kDa protein that is ubiquitously expressed at low levels. The N-terminal part of this protein contains two dsRNA binding motifs (dsRBM). The C-terminal EIF2S1 kinase domain includes 12 sub-domains that are conserved in several species (PMID:16954046). This antibody is specific to EIF2AK2.

## 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

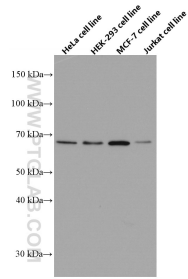
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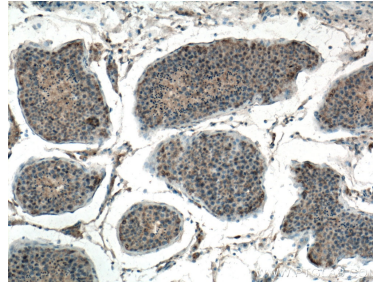
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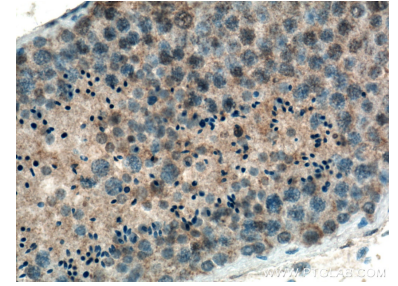
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66646-1-Ig (EIF2AK2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 66646-1-Ig (EIF2AK2 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 66646-1-Ig (EIF2AK2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).