

---

**Product Name: EIF2AK2 Mouse Monoclonal Antibody****Catalog #: AMM81360**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,ELISA,FC
<b>Reactivity</b>	Human
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide.
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,ELISA 1:5000-1:20000,FC 1:200-1:400
<b>Molecular Weight</b>	62kDa

**Antigen Information**

<b>Gene Name</b>	EIF2AK2
<b>Alternative Names</b>	PKR; PRKR; EIF2AK1
<b>Gene ID</b>	5610.0
<b>SwissProt ID</b>	P19525
<b>Immunogen</b>	Purified recombinant fragment of human EIF2AK2 (AA: 329-551) expressed in E. Coli.

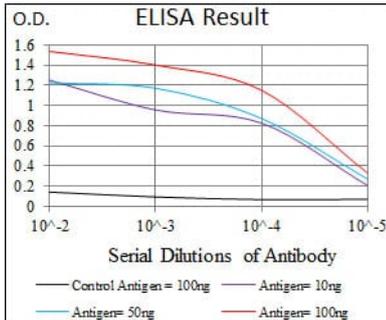
**Background**

The protein encoded by this gene is a serine/threonine protein kinase that is activated by autophosphorylation after binding to dsRNA. The activated form of the encoded protein can phosphorylate translation initiation factor EIF2S1, which in turn inhibits protein synthesis. This protein is also activated by manganese ions and heparin. Three transcript variants encoding two

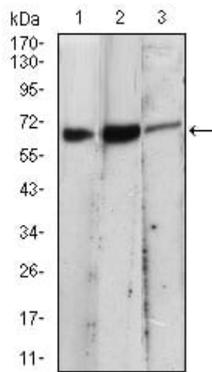
different isoforms have been found for this gene.

## Research Area

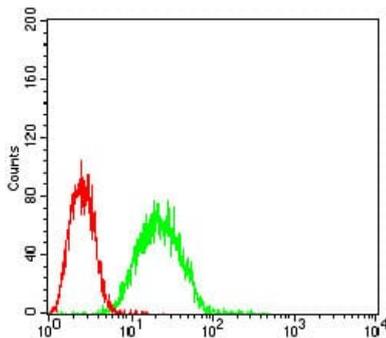
## Image Data



Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



Western blot analysis using EIF2AK2 mouse mAb against A431 (1), MCF-7 (2), PC-12 (3) cell lysate.



Flow cytometric analysis of A431 cells using EIF2AK2 mouse mAb (green) and negative control (red).