

## Rabbit Eif2ak2 Polyclonal Antibody | anti-Eif2ak2 antibody

Eif2ak2 antibody

|                               |                       |                                        |                                                           |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA303243</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|

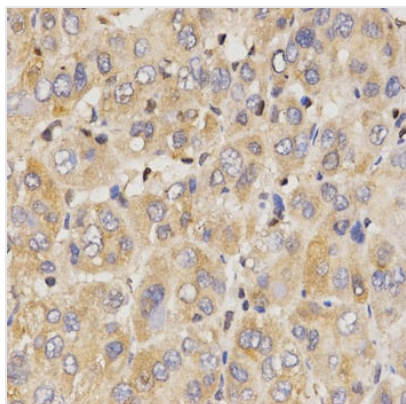
### PRODUCT SYNONYMS

Eif2ak2; Polyclonal Antibody; Eif2ak2 antibody; Pkr; Tik; Prkr; AI467567; AI747578; 2310047A08Rik; 4732414G15Rik; anti-Eif2ak2 antibody

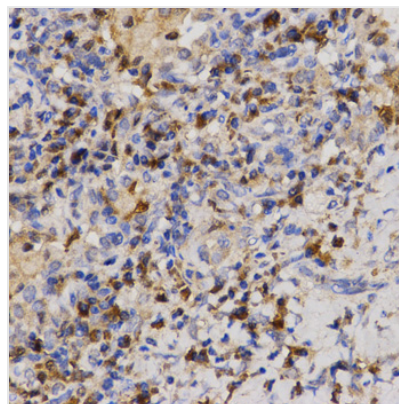
### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                     |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Host                                              | Rabbit                                                                                                                              |
| Reactivity                                        | Human, Mouse, Rat                                                                                                                   |
| Clonality                                         | Polyclonal                                                                                                                          |
| Specificity                                       | The antibody detects endogenous level of total Eif2ak2 antibody.                                                                    |
| Purity/Purification                               | Antibodies were purified by affinity purification using immunogen.                                                                  |
| Form/Format                                       | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                     | 1.0 mg/ml (varies by lot)                                                                                                           |
| Sequence Length                                   | 551                                                                                                                                 |
| Applicable Applications for anti-Eif2ak2 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                       |
| Immunogen Type                                    | Recombinant Protein                                                                                                                 |
| Immunogen Description                             | Recombinant protein of mouse Eif2ak2.                                                                                               |
| Target Name                                       | Eif2ak2                                                                                                                             |
| Preparation and Storage                           | Store at -20 degree C                                                                                                               |

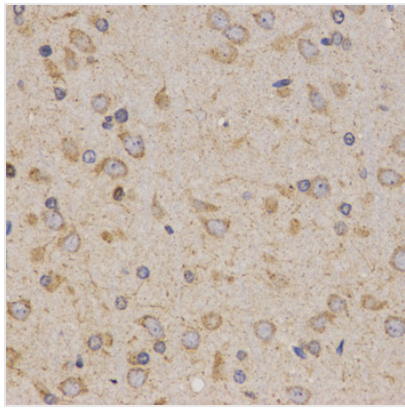
### IMAGES


**IHC (Immunohistochemistry)**

Immunohistochemistry analysis of paraffin-embedded human liver cancer tissue using Eif2ak2 antibody at dilution of 1:200 (x400 lens).

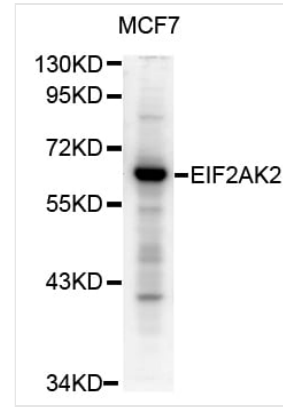

**IHC (Immunohistochemistry)**

Immunohistochemistry analysis of paraffin-embedded human lung cancer tissue using Eif2ak2 antibody at dilution of 1:200 (x400 lens).



#### IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded rat brain tissue using Eif2ak2 antibody at dilution of 1:200 (x400 lens).



#### WB (Western Blot)

Western blot analysis of extracts of MCF7 cell line, using Eif2ak2 antibody.

## ADDITIONAL INFORMATION

### Related Product Information for anti-Eif2ak2 antibody

IFN-induced dsRNA-dependent serine/threonine-protein kinase which plays a key role in the innate immune response to viral infection and is also involved in the regulation of signal transduction, apoptosis, cell proliferation and differentiation. Exerts its antiviral activity on a wide range of DNA and RNA viruses including hepatitis C virus (HCV), hepatitis B virus (HBV), measles virus (MV) and herpes simplex virus 1 (HHV-1). Inhibits viral replication via phosphorylation of the alpha subunit of eukaryotic initiation factor 2 (EIF2S1), this phosphorylation impairs the recycling of EIF2S1 between successive rounds of initiation leading to inhibition of translation which eventually results in shutdown of cellular and viral protein synthesis. Also phosphorylates other substrates including p53/TP53, PPP2R5A, DHX9, ILF3, IRS1 and the HHV-1 viral protein US11. In addition to serine/threonine-protein kinase activity, also has tyrosine-protein kinase activity and phosphorylates CDK1 at 'Tyr-4' upon DNA damage, facilitating its ubiquitination and proteosomal degradation. Either as an adapter protein and/or via its kinase activity, can regulate various signaling pathways (p38 MAP kinase, NF-kappa-B and insulin signaling pathways) and transcription factors (JUN, STAT1, STAT3, IRF1, ATF3) involved in the expression of genes encoding proinflammatory cytokines and IFNs. Activates the NF-kappa-B pathway via interaction with IKBKB and TRAF family of proteins and activates the p38 MAP kinase pathway via interaction with MAP2K6.

### Product Categories/Family for anti-Eif2ak2 antibody

Total protein Ab

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                            |
|----------------------------------|----------------------------------------------------------------------------|
| NCBI GI #                        | 208431827                                                                  |
| NCBI GeneID                      | 5610                                                                       |
| NCBI Accession #                 | NP_001129123.1                                                             |
| NCBI GenBank Nucleotide #        | NM_001135651.2                                                             |
| UniProt Accession #              | P19525; Q52M43; Q7Z6F6; Q9UIR4; A8K3P0; D6W584; E9PC80                     |
| Molecular Weight                 | 57,391 Da                                                                  |
| NCBI Official Full Name          | interferon-induced, double-stranded RNA-activated protein kinase isoform a |
| NCBI Official Synonym Full Names | eukaryotic translation initiation factor 2-alpha kinase 2                  |
| NCBI Official Symbol             | EIF2AK2                                                                    |
| NCBI Official Synonym Symbols    | PKR; PRKR; EIF2AK1; PPP1R83                                                |
| NCBI Protein Information         | interferon-induced, double-stranded RNA-activated protein kinase           |
| UniProt Protein Name             | Interferon-induced, double-stranded RNA-activated protein kinase           |
| UniProt Gene Name                | EIF2AK2                                                                    |

|                            |                                                           |
|----------------------------|-----------------------------------------------------------|
| UniProt Synonym Gene Names | PKR; PRKR; eIF-2A protein kinase 2; PKR; Protein kinase R |
| UniProt Entry Name         | E2AK2_HUMAN                                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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