

Product Name: KO-Validated EIF2AK2 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00060

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 62.1kDa

Antigen Information

Gene Name	EIF2AK2
Alternative Names	EIF2AK2; eIF-2A protein kinase 2; Protein kinase RNA-activated; PKR; p68 kinase; P1/eIF-2A protein kinase
Gene ID	5610.0
SwissProt ID	P19525
Immunogen	A synthesized peptide derived from human PKR

Background

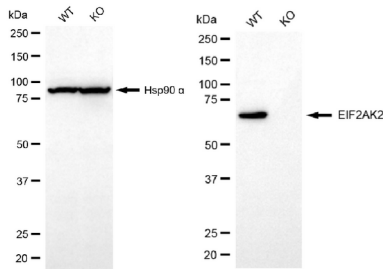
The protein encoded by this gene is a serine/threonine protein kinase that is activated by autophosphorylation after binding to dsRNA. The activated form of the encoded protein can phosphorylate translation initiation factor EIF2S1, which in turn inhibits protein synthesis. This protein is also activated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

the innate immune response against multiple DNA and RNA viruses. [provided by RefSeq, Jul 2021]

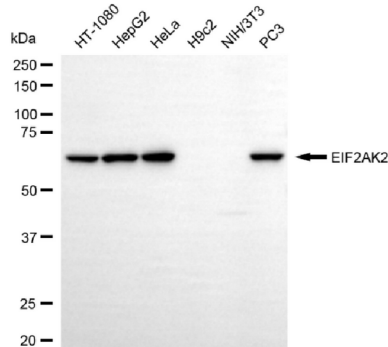
Research Area

Signal Transduction

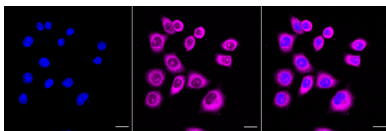
Image Data



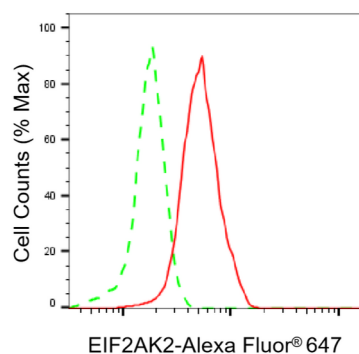
Western blotting analysis using EIF2AK2 antibody (KVA00060). EIF2AK2 expression in wild-type (WT) and EIF2AK2 knockout (KO) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with EIF2AK2 antibody (KVA00060, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using EIF2AK2 antibody (KVA00060). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with EIF2AK2 antibody (KVA00060, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with EIF2AK2 antibody (KVA00060, 1:1,000). Nuclei were stained blue with DAPI; EIF2AK2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.



Flow cytometric analysis of EIF2AK2 expression in HepG2 cells using EIF2AK2 antibody (KVA00060, 1:2,000). Green, isotype control; red, EIF2AK2.