

Product Name: KD-Validated EIF2AK4 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb01098

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Rat
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: 186.9kDa

Antigen Information

Gene Name	EIF2AK4
Alternative Names	EIF2AK4; Eukaryotic Translation Initiation Factor 2 Alpha Kinase 4; GCN2; KIAA1338; EIF-2-Alpha Kinase GCN2; GCN2-Like Protein; Eukaryotic Translation Initiation Factor 2-Alpha Kinase 4; General Control Nonderepressible; GCN2 EIF2alpha Kinase; EIF-2-Alpha Kinase; EC 2.7.11.1; PVOD2
Gene ID	440275.0
SwissProt ID	Q9P2K8
Immunogen	A synthesized peptide derived from human GCN2

Background

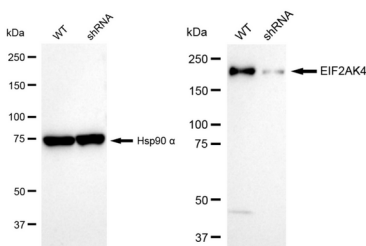
This gene encodes a member of a family of kinases that phosphorylate the alpha subunit of eukaryotic translation initiation

factor-2 (EIF2), resulting in the downregulation of protein synthesis. The encoded protein responds to amino acid deprivation by binding uncharged transfer RNAs. It may also be activated by glucose deprivation and viral infection. Mutations in this gene have been found in individuals suffering from autosomal recessive pulmonary venoocclusive-disease-2. [provided by RefSeq, Mar 2014]

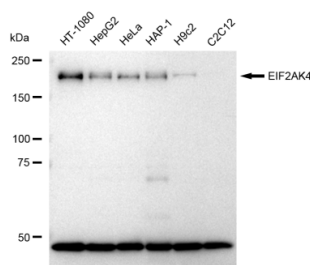
Research Area

Epigenetics and Nuclear Signaling, Signal Transduction

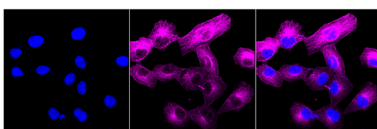
Image Data



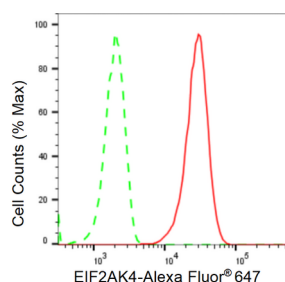
Western blotting analysis using EIF2AK4 antibody (KVA01098). EIF2AK4 expression in wild type (WT) and EIF2AK4 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with EIF2AK4 antibody (KVA01098, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using EIF2AK4 antibody (KVA01098). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with EIF2AK4 antibody (KVA01098, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with EIF2AK4 antibody (KVA01098, 1:1,000). Nuclei were stained blue with DAPI; EIF2AK4 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and Smart Gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of EIF2AK4 expression in HT-1080 cells using EIF2AK4 antibody (KVA01098, 1:2,000). Green, isotype control; red, EIF2AK4.