

ARG59827
anti-EIF2AK4 / GCN2 antibodyPackage: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes EIF2AK4 / GCN2
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	EIF2AK4 / GCN2
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-300 of Human EIF2AK4 (NP_001013725.2).
Conjugation	Un-conjugated
Alternate Names	EC 2.7.11.1; GCN2; GCN2-like protein; PVOD2; Eukaryotic translation initiation factor 2-alpha kinase 4

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HepG2	
Observed Size	187 kDa	

Properties

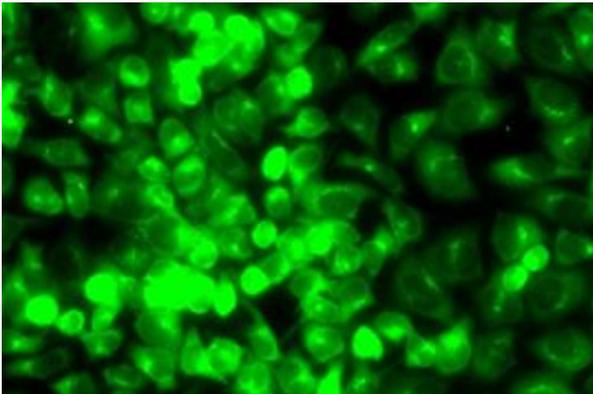
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

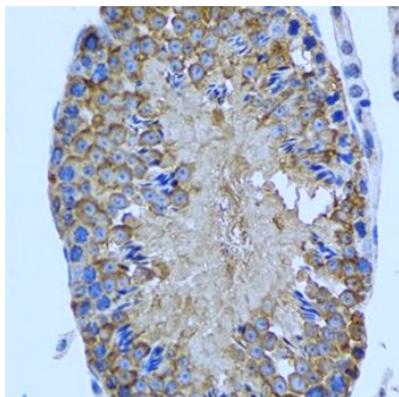
Gene Symbol	EIF2AK4
Gene Full Name	eukaryotic translation initiation factor 2 alpha kinase 4
Background	This gene encodes a member of a family of kinases that phosphorylate the alpha subunit of eukaryotic translation initiation factor-2 (EIF2), resulting in the downregulation of protein synthesis. The 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]
Function	Can phosphorylate the alpha subunit of EIF2 and may mediate translational control. [UniProt]
Calculated Mw	187 kDa
PTM	Autophosphorylated; autophosphorylation on Thr-899 is increased upon amino acid starvation and in UV irradiation cells and inhibited in presence of IMPACT. [UniProt]
Cellular Localization	Cytoplasm. [UniProt]

Images



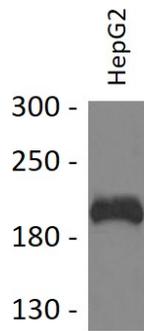
ARG59827 anti-EIF2AK4 / GCN2 antibody ICC/IF image

Immunofluorescence: A549 cells stained with ARG59827 anti-EIF2AK4 / GCN2 antibody.



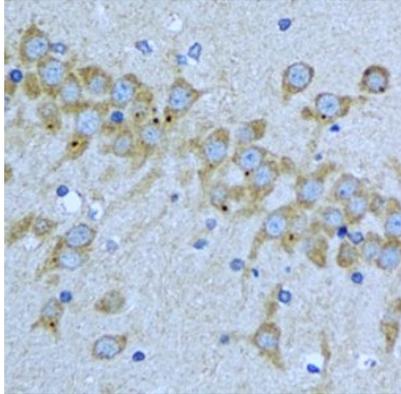
ARG59827 anti-EIF2AK4 / GCN2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat testis stained with ARG59827 anti-EIF2AK4 / GCN2 antibody at 1:100 dilution.



ARG59827 anti-EIF2AK4 / GCN2 antibody WB image

Western blot: 25 µg of HepG2 cell lysate stained with ARG59827 anti-EIF2AK4 / GCN2 antibody at 1:1000 dilution.



ARG59827 anti-EIF2AK4 / GCN2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse brain stained with ARG59827 anti-EIF2AK4 / GCN2 antibody at 1:100 dilution.