



GCN2 (phospho Thr899) Polyclonal Antibody

Catalog No	YP-Ab-14544
Isotype	IgG
Reactivity	Human;Mouse
Applications	IHC;IF;ELISA
Gene Name	EIF2AK4
Immunogen	The antiserum was produced against synthesized peptide derived from human GCN2 around the phosphorylation site of Thr899. AA range:865-914
Specificity	Phospho-GCN2 (T899) Polyclonal Antibody detects endogenous levels of GCN2 protein only when phosphorylated at T899.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC: 1/100 - 1/300. ELISA: 1/5000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	EC:2.7.11.1;eIF-2-alpha kinase GCN2;Eukaryotic translation initiation factor 2-alpha kinase 4;GCN2;GCN2 like protein;EIF2AK4;KIAA1338;GCN2-like protein
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Cytoplasm .
Tissue Specificity	Widely expressed (PubMed:10504407). Expressed in lung, smooth muscle cells and macrophages (PubMed:24292273).
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,domain:Kinase domain 1 is a degenerate kinase domain.,domain:RWD domain is reported to interact with GCN1L1.,function:Can phosphorylate the alpha subunit of EIF2 and may mediate translational control.,PTM:Autophosphorylated on threonine residues.,similarity:Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. GCN2 subfamily.,similarity:Contains 1 RWD domain.,similarity:Contains 2 protein kinase domains.,tissue specificity:Widely expressed.,



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],

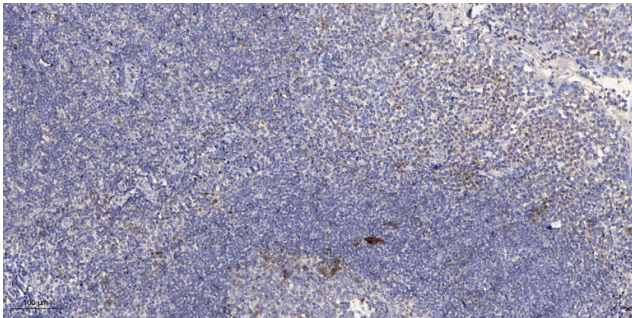
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).