



# GCN2 (phospho Thr899) Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-14544
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse
<b>Applications</b>	IHC;IF;ELISA
<b>Gene Name</b>	EIF2AK4
<b>Protein Name</b>	Eukaryotic translation initiation factor 2-alpha kinase 4
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human GCN2 around the phosphorylation site of Thr899. AA range:865-914
<b>Specificity</b>	Phospho-GCN2 (T899) Polyclonal Antibody detects endogenous levels of GCN2 protein only when phosphorylated at T899.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	IHC: 1/100 - 1/300. ELISA: 1/5000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	EIF2AK4; GCN2; KIAA1338; Eukaryotic translation initiation factor 2-alpha kinase 4; GCN2-like protein
<b>Observed Band</b>	
<b>Cell Pathway</b>	Cytoplasm .
<b>Tissue Specificity</b>	Widely expressed (PubMed:10504407). Expressed in lung, smooth muscle cells and macrophages (PubMed:24292273).
<b>Function</b>	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.,
<b>Background</b>	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],

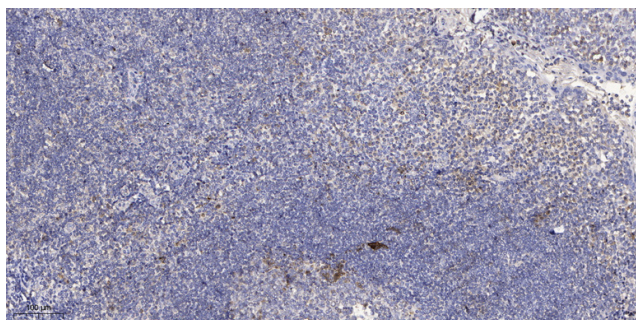
**matters needing attention**

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).