



Rabbit Anti-phospho-GCN2 (Thr667) antibody

SL3156R

Product Name:	phospho-GCN2 (Thr667)
Chinese Name:	磷酸化蛋白激酶GCN2蛋白抗体
Alias:	GCN2 (phospho T667); p-GCN2 (phospho T667); EIF2AK4; Eukaryotic Translation Initiation Factor 2-alpha kinase 4; GCN2-like protein; KIAA1338; E2AK4_HUMAN; Eif2ak4; Eukaryotic Translation Initiation Factor 2 alpha kinase 4; GCN2; GCN2 eIF2alpha kinase; GCN2-like protein; MGCN2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	181kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human GCN2 around the phosphorylation site of Thr667:PG(p-T)PP
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	GCN2 belongs to a family of kinases that phosphorylate the alpha subunit of eukaryotic translation initiation factor 2 to downregulate protein synthesis in response to varied

cellular stresses.

Tissue Specificity:

Widely expressed.

Post-translational modifications:

Autophosphorylated on threonine residues.

Similarity:

Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. GCN2 subfamily.

Contains 2 protein kinase domains.

Contains 1 RWD domain.

SWISS:

Q9P2K8

Gene ID:

440275

Database links:

[Entrez Gene: 440275](#)Human

[Entrez Gene: 27103](#)Mouse

[Entrez Gene: 114859](#)Rat

[Omim: 609280](#)Human

[SwissProt: Q9P2K8](#)Human

[SwissProt: Q9QZ05](#)Mouse

[Unigene: 656673](#)Human

[Unigene: 217616](#)Mouse

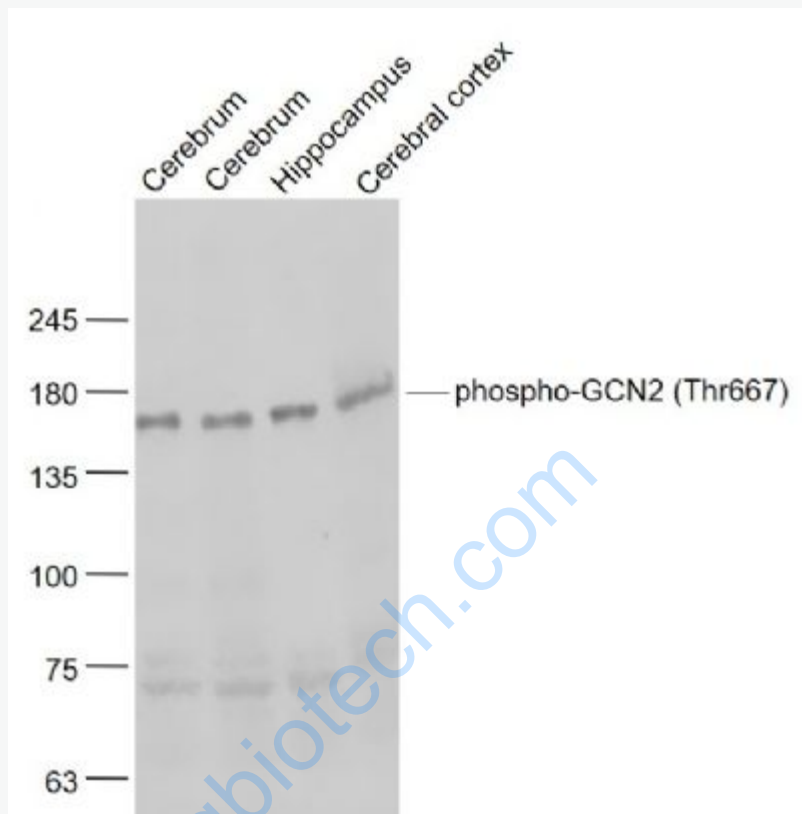
[Unigene: 8333](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

GCN2蛋白的作用;可能是将短期记忆变成长期记忆的一个主控调节因子, GCN2蛋白在长期记忆形成中功能的发现将可能帮助研究人员开发出提高记忆力丧失的病人提高记忆力。

Picture:



Sample:

Cerebrum (Mouse) Lysate at 40 ug

Cerebrum (Rat) Lysate at 40 ug

Hippocampus (Mouse) Lysate at 40 ug

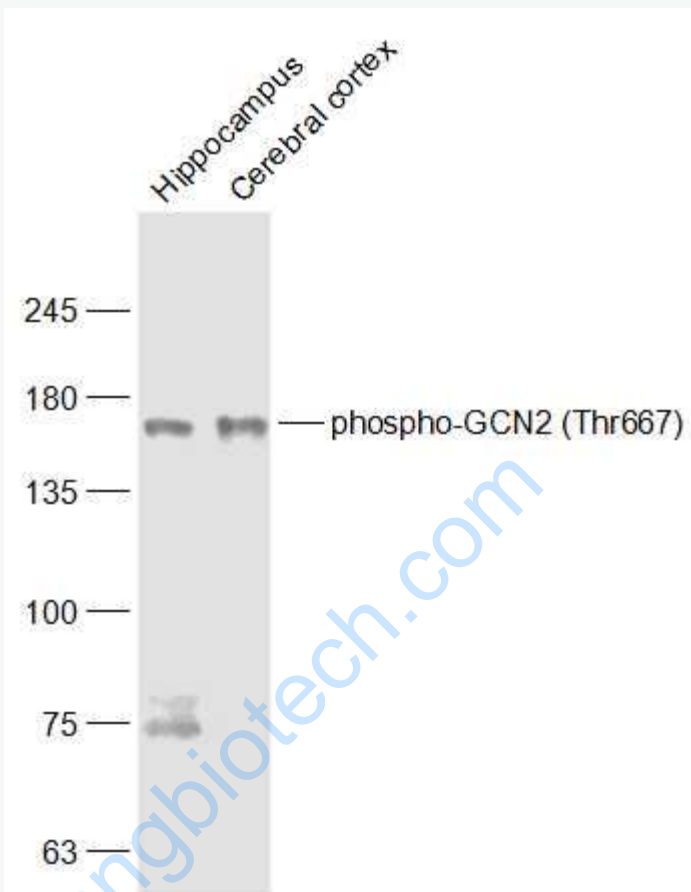
Cerebral cortex (Mouse) Lysate at 40 ug

Primary: Anti- phospho-GCN2 (Thr667) (SL3156R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 181 kD

Observed band size: 170/181 kD



Sample:

Hippocampus (Mouse) Lysate at 40 ug

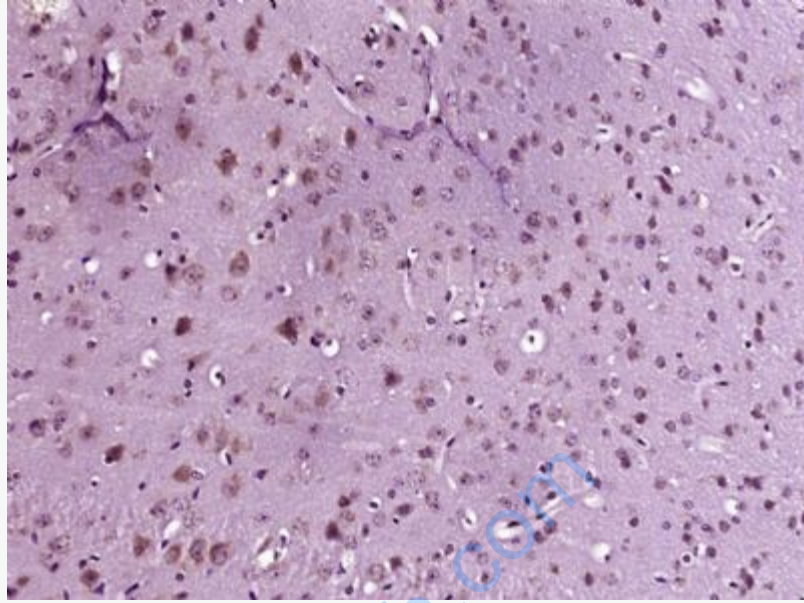
Cerebral cortex (Mouse) Lysate at 40 ug

Primary: Anti- phospho-GCN2 (Thr667) (SL3156R) at 1/1000 dilution

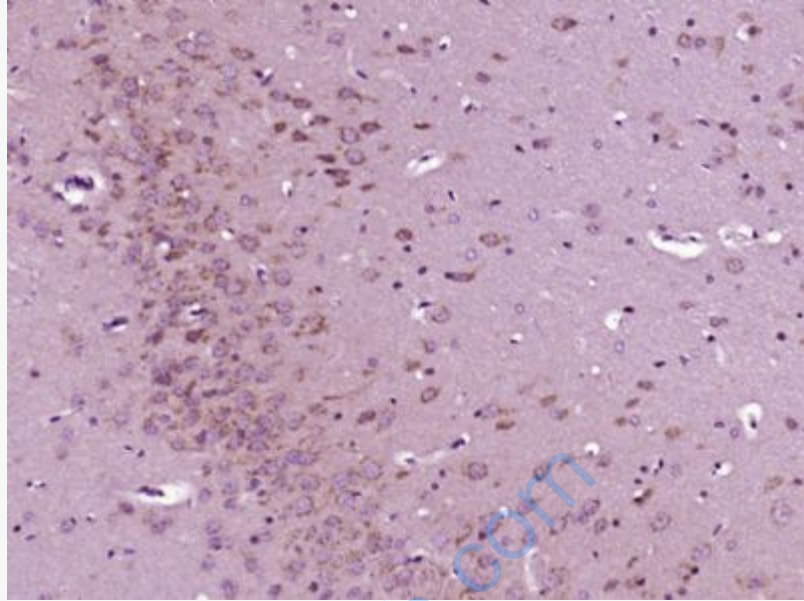
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 181 kD

Observed band size: 170 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-GCN2 (Thr667)) Polyclonal Antibody, Unconjugated (SL3156R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-GCN2 (Thr667)) Polyclonal Antibody, Unconjugated (SL3156R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.