



## Rabbit Anti-Phospho-GCN2 (Thr899) antibody

SL3155R

<b>Product Name:</b>	Phospho-GCN2 (Thr899)
<b>Chinese Name:</b>	磷酸化蛋白激酶GCN2蛋白抗体
<b>Alias:</b>	GCN2 (phospho T899); p-GCN2 (phospho T899); 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.
<b>文献引用</b> <b>PubMed</b> :	<p><b>Specific References(1)</b> SL3155R has been referenced in 1 publications.</p> <p>[IF=5.58]Lehman, Stacey L., Sandra Ryeom, and Constantinos Koumenis. "Signaling through alternative Integrated Stress Response pathways compensates for GCN2 loss in a mouse model of soft tissue sarcoma." Scientific Reports 5 (2015).<b>WB;Mouse.</b></p> <p style="text-align: right;">PubMed:26123823</p>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Cow,Horse,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000Flow-Cyt=1ug/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	189kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated Synthesised phosphopeptide derived from human GCN2 around the phosphorylation site of Thr899:HL(p-T)GM
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>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.</p> <p><b>Function:</b> Can phosphorylate the alpha subunit of EIF2 and may mediate translational control.</p> <p><b>Tissue Specificity:</b> Widely expressed.</p> <p><b>Post-translational modifications:</b> Autophosphorylated on threonine residues.</p> <p><b>Similarity:</b> Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. GCN2 subfamily. Contains 2 protein kinase domains. Contains 1 RWD domain.</p> <p><b>SWISS:</b> Q9P2K8</p> <p><b>Gene ID:</b> 440275</p> <p><b>Database links:</b>  <a href="#">Entrez Gene: 440275</a>Human  <a href="#">Entrez Gene: 27103</a>Mouse  <a href="#">Entrez Gene: 114859</a>Rat  <a href="#">Omim: 609280</a>Human  <a href="#">SwissProt: Q9P2K8</a>Human  <a href="#">SwissProt: Q9QZ05</a>Mouse  <a href="#">Unigene: 656673</a>Human  <a href="#">Unigene: 217616</a>Mouse  <a href="#">Unigene: 8333</a>Rat</p>

**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。



Blank control (Black line): Molt4 (Black).

Primary Antibody (green line): Rabbit Anti-Phospho-GCN2 (Thr899) antibody (SL3155R)

Dilution:  $1\mu\text{g} / 10^6$  cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647

Dilution:  $1\mu\text{g} / \text{test}$ .

**Protocol**

The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

**Picture:**