SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-GAK antibody

Catalog Number: SL16212R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	GAK
Immunogen:	KLH conjugated synthetic peptide derived from human GAK: 331-430/1311
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Dog)
Predicted MW.:	143kDa
Subcellular Location:	cytoplasmic
Background:	In all eukaryotes, the cell cycle is governed by cyclin-dependent protein kinases (CDKs), whose activities are regulated by cyclins and CDK inhibitors in a diverse array of mechanisms that involve the control of phosphorylation and dephosphorylation of Ser, Thr or Tyr residues. Cyclins are molecules that possess a consensus domain called the 'cyclin box.' In mammalian cells, 9 cyclin species have been identified, and they are referred to as cyclins A through I. Cyclin G is a direct transcriptional target of the p53 tumor suppressor gene product and thus functions downstream of p53. GAK is an association partner of cyclin G and CDK5. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013] **Function:** Associates with cyclin G and CDK5. Seems to act as an auxilin homolog that is involved in the uncoating of clathrin-coated vesicles by Hsc70

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

SUNLONG

SunLong Biotech Co.,LTD

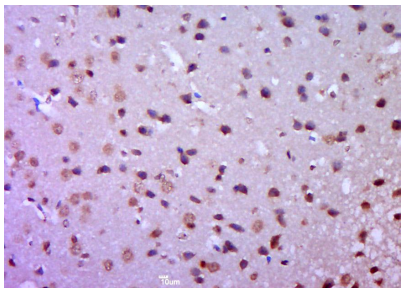
Tel: 0086-571-56623320 Fax:0086-571-56623318

E-mail:sales@sunlongbiotech.com

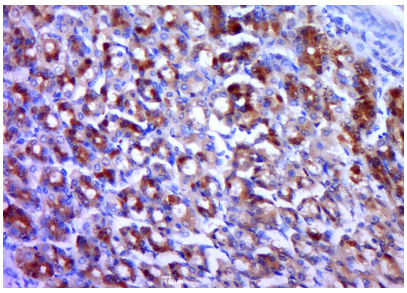
www.sunlongbiotech.com

	in non-neuronal cells. Expression oscillates slightly during the cell cycle, peaking at G1. **Subcellular Location:** Cytoplasm > perinuclear region. Golgi apparatus > trans-Golgi network. Cell junction > focal adhesion. Localizes to the perinuclear area and to the trans-Golgi network. Also seen on the plasma membrane, probably at focals adhesions. **Tissue Specificity:** Ubiquitous. Highest in testis. **Similarity:** Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Contains 1 C2 tensin-type domain. Contains 1 J domain. Contains 1 phosphatase tensin-type domain. Contains 1 protein kinase domain. **Database links:** **Entrez Gene:** 2580 Human **Entrez Gene:** 231580 Mouse Omim: 602052 Human **SwissProt:** O14976 Human **SwissProt:** Q99KY4 Mouse **Unigene:** 369607 Human **Unigene:** 276647 Mouse

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); 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 (GAK) Polyclonal Antibody, Unconjugated (SL16212R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat stomach tissue); 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 (GAK) Polyclonal Antibody, Unconjugated (SL16212R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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