Product Name: **GAK Rabbit Polyclonal Antibody**
Catalog #: **APRab11258**
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:10000
Molecular Weight	144kDa

Antigen Information

Gene Name	GAK
Alternative Names	GAK; Cyclin-G-associated kinase
Gene ID	2580.0
SwissProt ID	O14976
Immunogen	The antiserum was produced against synthesized peptide derived from human GAK. AA range:101-150

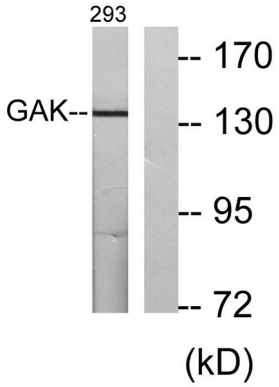
Background

cyclin G associated kinase(GAK) Homo sapiens In all eukaryotes, the cell cycle is governed by cyclin-dependent protein

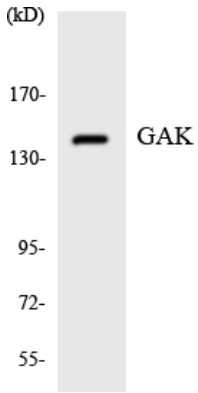
kinases (CDKs), whose activities are regulated by cyclins and CDK inhibitors in a diverse array of mechanisms that involve the control of phosphorylation and dephosphorylation of Ser, Thr or Tyr residues. Cyclins are molecules that possess a consensus domain called the 'cyclin box.' In mammalian cells, 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. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015],catalytic activity:ATP + a protein = ADP + a phosphoprotein.,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 in non-neuronal cells. Expression oscillates slightly during the cell cycle, peaking at G1.,similarity:Belongs to the protein kinase superfamily. Ser/Thr protein kinase family.,similarity:Contains 1 C2 tensin-type domain.,similarity:Contains 1 J domain.,similarity:Contains 1 phosphatase tensin-type domain.,similarity:Contains 1 protein kinase domain.,subcellular location: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.,

Research Area

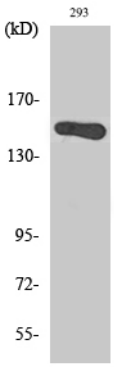
Image Data



Western blot analysis of lysates from 293 cells, using GAK Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HepG2 cells using GAK antibody.



Western Blot analysis of various cells using GAK Polyclonal Antibody