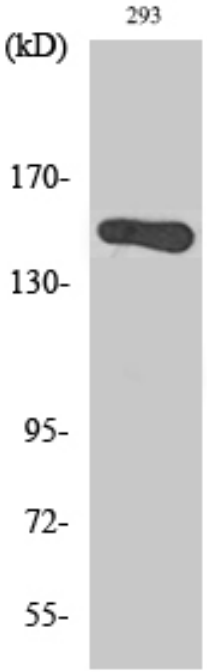
GAK Polyclonal Antibody

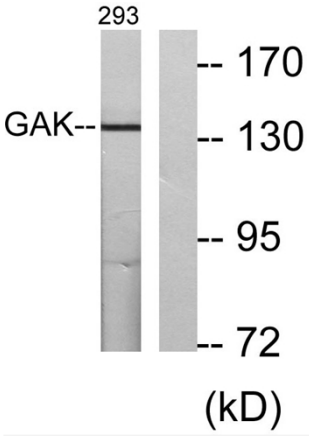
Catalog No	YP-Ab-14752
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	GAK
Protein Name	Cyclin-G-associated kinase
Immunogen	The antiserum was produced against synthesized peptide derived from human GAK. AA range:101-150
Specificity	GAK Polyclonal Antibody detects endogenous levels of GAK protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	GAK; Cyclin-G-associated kinase
Observed Band	144kD
Cell Pathway	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 focal adhesions.
Tissue Specificity	Ubiquitous. Highest in testis.
Function	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.,
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],
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.

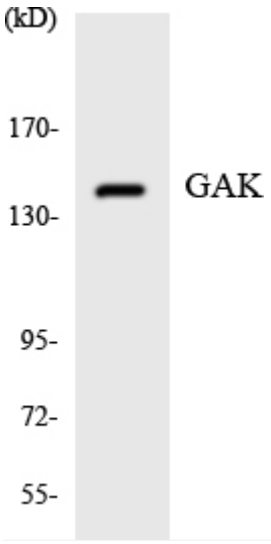
Products Images



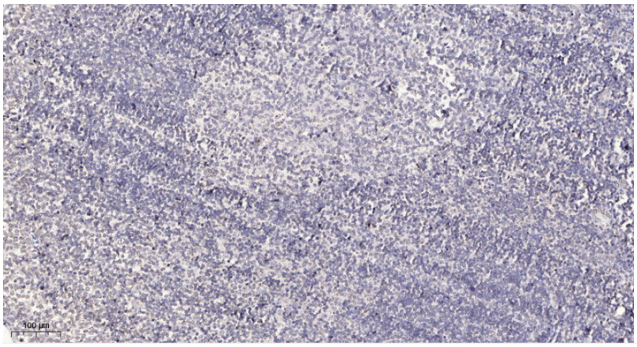
Western Blot analysis of various cells using GAK Polyclonal Antibody



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.



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).