



GAK Monoclonal Antibody

Catalog No	YP-mAb-14752
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	GAK
Immunogen	The antiserum was produced against synthesized peptide derived from human GAK. AA range:101-150
Specificity	GAK Monoclonal Antibody detects endogenous levels of GAK protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	EC:2.7.11.1;DNAJC26;GAK;Cyclin-G-associated kinase
Observed Band	144kD
Calculated Molecular Weight	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 focal 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],

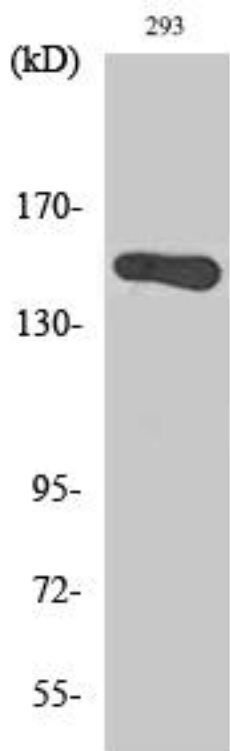
matters needing attention

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 Monoclonal Antibody