



NUAK1 Polyclonal Antibody

Catalog No	YP-Ab-04895
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	NUAK1 ARK5 KIAA0537 OMPHK1
Immunogen	Synthesized peptide derived from human protein . at AA range: 530-610
Specificity	NUAK1 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, 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	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	NUAK1;AMPK-related protein kinase 5;EC:2.7.11.1;NUAK 1;NUAK family SNF1-like kinase 1;NUAK1 ARK5 KIAA0537 OMPHK1;NUAK family SNF1-like kinase 1 (EC 2.7.11.1) (AMPK-related protein kinase 5) (ARK5) (Omphalocyte kinase 1)
Observed Band	72kD
Calculated Molecular Weight	72kD
Cell Pathway	Nucleus . Cytoplasm .
Tissue Specificity	Expressed at high levels in heart and brain, and at lower levels in skeletal muscle, kidney, ovary, placenta, lung and liver. Highly up-regulated in colorectal cancer cell lines.
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein., cofactor:Magnesium.,enzyme regulation:Activated by PKB/AKT1 during glucose starvation. Activated by phosphorylation on Thr-211 by STK11 in complex with STE20-related adapter-alpha (STRAD alpha) pseudo kinase and CAB39., function:Involved in tolerance to glucose starvation. Phosphorylates ATM. Suppresses Fas-induced apoptosis by phosphorylation of CASP6, thus suppressing the activation of the caspase and the subsequent cleavage of CFLAR.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. SNF1



subfamily.,similarity:Contains 1 protein kinase domain.,tissue specificity:Expressed at high levels in heart and brain, and at lower levels in skeletal muscle, kidney, ovary, placenta, lung and liver.,

Background

catalytic activity:ATP + a protein = ADP + a phosphoprotein., cofactor:Magnesium.,enzyme regulation:Activated by PKB/AKT1 during glucose starvation. Activated by phosphorylation on Thr-211 by STK11 in complex with STE20-related adapter-alpha (STRAD alpha) pseudo kinase and CAB39., function:Involved in tolerance to glucose starvation. Phosphorylates ATM. Suppresses Fas-induced apoptosis by phosphorylation of CASP6, thus suppressing the activation of the caspase and the subsequent cleavage of CFLAR.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. SNF1 subfamily.,similarity:Contains 1 protein kinase domain.,tissue specificity:Expressed at high levels in heart and brain, and at lower levels in skeletal muscle, kidney, ovary, placenta, lung and liver.,

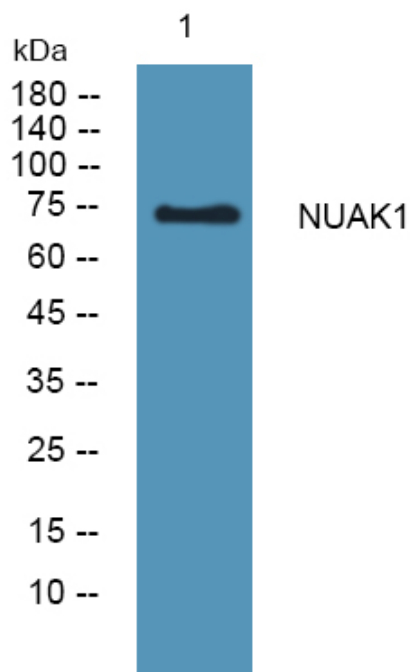
matters needing attention

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 lysates from DU145 cells, primary antibody was diluted at 1:1000, 4° over night