



NEK1 Polyclonal Antibody

Catalog No	YP-Ab-06131
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	NEK1 KIAA1901
Immunogen	Synthesized peptide derived from human protein . at AA range: 280-360
Specificity	NEK1 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	EC:2.7.11.1;KIAA1901;Never in mitosis A-related kinase 1;NimA related protein kinase 1;NimA-related protein kinase 1;NEK1;NEK1 KIAA1901;Serine/threonine-protein kinase Nek1 (EC 2.7.11.1) (Never in mitosis A-related kinase 1) (NimA-related protein kinase 1) (Renal carcinoma antigen NY-REN-55)
Observed Band	170 kDa
Calculated Molecular Weight	1258 aa, 143 kDa
Cell Pathway	Nucleus . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Cytoplasm . Associated with the pericentriolar material (PubMed:21211617). Localizes to centrosome during interphase and mitosis (By similarity). Translocated from cytoplasm to discrete nuclear foci at sites of DNA damage (PubMed:15604234). .
Tissue Specificity	High fetal expression in the brain and kidney.
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein., cofactor:Magnesium.,function:Phosphorylates serines and threonines, but also appears to possess tyrosine kinase activity. Implicated in the control of meiosis., sequence caution:Contaminating sequence. Potential poly-A sequence., similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. NEK Ser/Thr protein kinase family. NIMA subfamily.,



similarity:Contains 1 protein kinase domain.,subunit:Binds to SPERT.,

Background

The protein encoded by this gene is a serine/threonine kinase involved in cell cycle regulation. The encoded protein is found in a centrosomal complex with FEZ1, a neuronal protein that plays a role in axonal development. Defects in this gene are a cause of polycystic kidney disease (PKD). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2010],

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