Anti-Nek9 antibody

Description	Rabbit polyclonal to Nek9.

Model	STJ94400
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IF, WB
Immunogen	Synthesized peptide derived from human Nek9 around the non-phosphorylation site of T210.
Immunogen Region	150-230 aa
Gene ID	91754
Gene Symbol	NEK9
Dilution range	WB 1:500-1:2000IF 1:200-1:1000ELISA 1:20000
Specificity	Nek9 Polyclonal Antibody detects endogenous levels of Nek9 protein.
Tissue Specificity	Most abundant in heart, liver, kidney and testis. Also expressed in smooth muscle cells and fibroblasts.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Serine/threonine-protein kinase Nek9 Nercc1 kinase Never in mitosis A-related kinase 9 NimA-related protein kinase 9 NimA-related kinase 8 Nek8
Molecular Weight	107 kDa

Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:18591OMIM:609798
Alternative Names	Serine/threonine-protein kinase Nek9 Nercc1 kinase Never in mitosis A-related kinase 9 NimA-related protein kinase 9 NimA-related kinase 8 Nek8
Function	Pleiotropic regulator of mitotic progression, participating in the control of spindle dynamics and chromosome separation. Phosphorylates different histones, myelin basic protein, beta-casein, and BICD2. Phosphorylates histone H3 on serine and threonine residues and beta-casein on serine residues. Important for G1/S transition and S phase progression. Phosphorylates NEK6 and NEK7 and stimulates their activity by releasing the autoinhibitory functions of Tyr-108 and Tyr-97 respectively.
Sequence and Domain Family	Dimerizes through its coiled-coil domain.
Cellular Localization	Cytoplasm Nucleus
Post-translational Modifications	Autophosphorylated on serine and threonine residues . When complexed with FACT, exhibits markedly elevated phosphorylation on Thr-210. During mitosis, not phosphorylated on Thr-210. Phosphorylated by CDK1 in vitro.