

Immunotag™ Nek9 (phospho Thr210) Polyclonal Antibody

Antibody Specification	
Catalog No.	ITP0564
Product Description	Immunotag™ Nek9 (phospho Thr210) Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	Nek9 (Thr210)
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,IF,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	The antiserum was produced against synthesized peptide derived from human NEK9 around the phosphorylation site of Thr210. AA range:176-225
Specificity	Phospho-Nek9 (T210) Polyclonal Antibody detects endogenous levels of Nek9 protein only when phosphorylated at T210.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	NEK9
Accession No.	Q8TD19 Q8K1R7
Alternate Names	NEK9; KIAA1995; NEK8; NERCC; Serine/threonine-protein kinase Nek9; Nercc1 kinase; Never in mitosis A-related kinase 9; NimA-related protein kinase 9; NimA-related kinase 8; Nek8

Antibody Specification

Description	NIMA related kinase 9(NEK9) Homo sapiens This gene encodes a member of the NimA (never in mitosis A) family of serine/threonine protein kinases. The encoded protein is activated in mitosis and, in turn, activates other family members during mitosis. This protein also mediates cellular processes that are essential for interphase progression. [provided by RefSeq, Jul 2016],
Protein Expression	Brain,Dendritic cell,Epithelium,Eye,Fibroblast,
Subcellular Localization	nucleus,cytoplasm,centrosome,cytosol,
Protein Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,developmental stage:Expression varied mildly across the cell cycle, with highest expression observed in G1 and stationary-phase cells.,domain:Dimerizes through its coiled-coil domain.,enzyme regulation:Activated during mitosis by intramolecular autophosphorylation. Activity and autophosphorylation is activated by manganese >> magnesium ions. Sensitive to increasing concentration of detergents. It is not cell-cycle regulated but activity is higher in G0-arrested cells.,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.,PTM: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 CDC2 in vitro.,similarity:Belongs to the protein kinase superfamily. NEK Ser/Thr protein kinase family. NIMA subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 6 RCC1 repeats.,subunit:Homodimer. Binds to Ran GTPase. Has a greater affinity for Ran-GDP over Ran-GTP. Interacts with NEK6, NEK7 and BICD2. Interacts with SSRP1 and SUPT16H, the 2 subunits of the FACT complex.,tissue specificity:Most abundant in heart, liver, kidney and testis. Also expressed in smooth muscle cells and fibroblasts.,
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