

Immunotag™ NEK2 Polyclonal Antibody

Antibody Specification	
Catalog No.	ITN1870
Product Description	Immunotag™ NEK2 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	NEK2
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Rabbit
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	NEK2 Polyclonal Antibody detects endogenous levels of protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Gene Name	NEK2 NEK2A NLK1
Accession No.	P51955 O35942
Description	NIMA related kinase 2(NEK2) Homo sapiens This gene encodes a serine/threonine-protein kinase that is involved in mitotic regulation. This protein is localized to the centrosome, and undetectable during G1 phase, but accumulates progressively throughout the S phase, reaching maximal levels in late G2 phase. Alternatively spliced transcript variants encoding different isoforms with distinct C-termini have been noted for this gene. [provided by RefSeq, Feb 2011],

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Protein Expression	Mammary gland,Nasopharynx,Placenta,Platelet,Skin,T-cell,Testis,Uterus,
Subcellular Localization	kinetochore,condensed chromosome kinetochore,condensed nuclear chromosome,spindle pole,nucleus,nucleolus,cytoplasm,centrosome,cytosol,microtubule,midbody,protein complex,
Protein Function	<p>catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,developmental stage:Accumulates throughout S phase and shows maximal levels in late G2. This expression pattern is highly reminiscent of that of A and B cyclins. Expression of both isoform 1 and isoform 2 is low in the G1 phase and increases in the S/G2 phases. Isoform 1 is absent from cells arrested in the G2/M prometaphase, whereas isoform 2 remains present.,function:Protein kinase that is involved in mitotic regulation. May have a role at the G2-M transition. May also play a role in meiosis. Isoform 1 but not isoform 2 appears to play a role in centrosome splitting. Isoform 1 phosphorylates and activates NEK11 in G1/S-arrested cells. Isoform 2, which is not present in the nucleolus, does not.,PTM:It is unsure whether Thr-170 or Ser-171 is phosphorylated.,similarity:Belongs to the protein kinase superfamily. NEK Ser/Thr protein kinase family. NIMA subfamily.,similarity:Contains 1 protein kinase domain.,subcellular location:Has a nucleolar targeting/ retention activity via a coiled-coil domain at the C-terminal end.,subcellular location:Predominantly cytoplasmic.,subunit:Interacts with TERF1. Isoform 1 and isoform 2 form homo-and heterodimers.,tissue specificity:Isoform 1 and isoform 2 are expressed in peripheral blood T-cells and a wide variety of transformed cell types.,</p>
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.