Anti-NEK2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014194

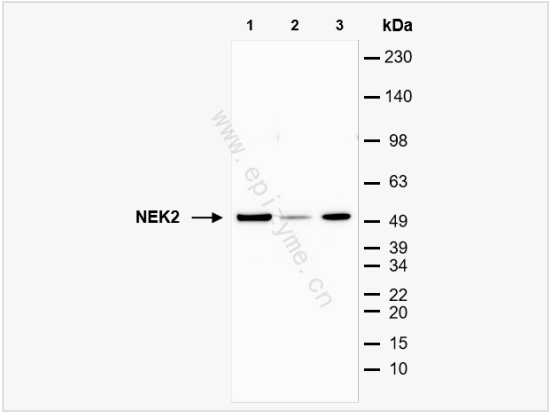
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	90I84G70
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human NEK2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-NEK2 Rabbit mAb [90I84G70] is for research use only and not for use in diagnostic or therapeutic procedures.

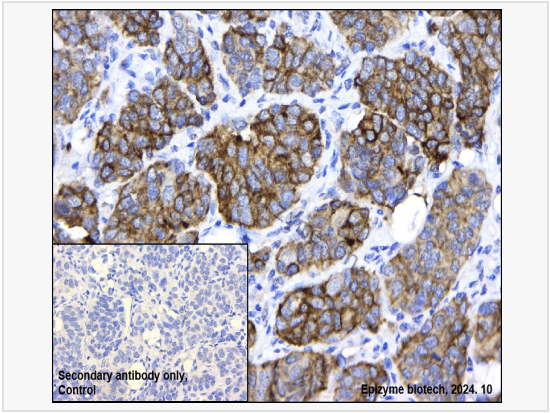
Protein Information

Synonyms	HSPK 21, HsPK21, NEK 2, NEK2, NEK2_HUMAN, NEK2A, Never in mitosis A-related kinase 2, NIMA (never in mitosis gene a) related kinase 2, NimA like protein kinase 1, NIMA related kinase 2, NimA related protein kinase 2, NimA-like protein kinase 1, NimA-related protein kinase 2, NLK 1, NLK1, Serine/threonine-protein kinase Nek2.
Calculated MW	Calculated MW: 52 kDa; Observed MW: 52 kDa
Uniprot ID	P51955
Gene ID	4751
Background	Protein kinase that is involved in mitotic regulation. Integral component of the mitotic spindle-assembly checkpoint which is necessary for proper chromosome segregation during metaphase-anaphase transition. Required for association of MAD2L1 to kinetochore.
Cellular Location	Cytoplasm. Predominantly cytoplasmic; Nucleus > nucleolus. Has a nucleolar targeting/ retention activity via a coiled-coil domain at the C-terminal end and Nucleus. Chromosome > centromere. Chromosome > centromere > kinetochore. Co-localizes with SGOL1 and MAD1L1 at the kinetochore. Not associated with kinetochore in the interphase but becomes associated with it upon the breakdown of the nuclear envelope.
Tissue Location	Isoform 1 and isoform 2 are expressed in peripheral blood T-cells and a wide variety of transformed cell types.

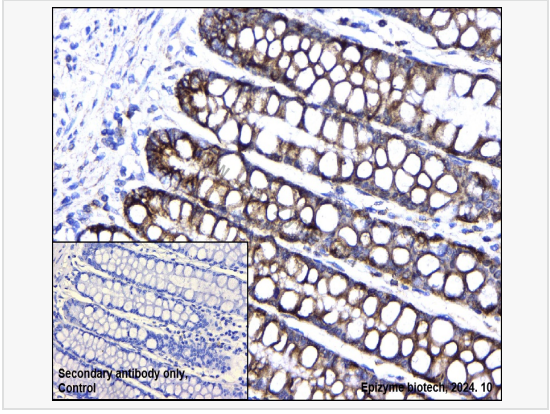
Validation Images



Western Blot - Anti-NEK2 Rabbit mAb [90I84G70]
All lanes: R014194 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 3: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 52 kDa
Observed band size: 52 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-NEK2 Rabbit mAb [90I84G70]
Sample: Paraformaldehyde-fixed, paraffin embedded human ovarian cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014194 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-NEK2 Rabbit mAb [90I84G70]
Sample: Paraformaldehyde-fixed, paraffin embedded human rectal adenocarcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014194 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.