

Anti-NEK7 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

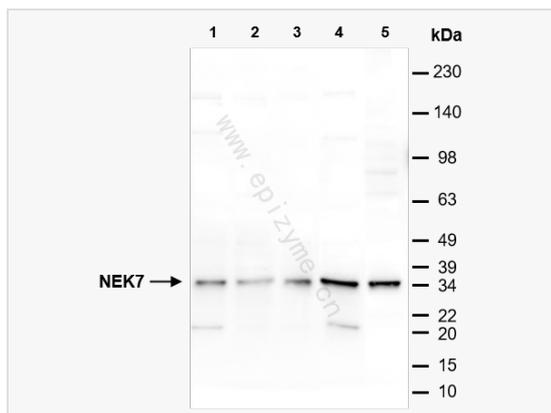
Catalog # R014707

Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Rat, Human, Mouse
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	66J20J81
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human NEK7
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-NEK7 Rabbit mAb [66J20J81] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	EC 2.7.11.1, NEK7, NEK7_HUMAN, Never in mitosis A-related kinase 7, Never in mitosis gene a-related kinase 7, NIMA (never in mitosis gene a) related kinase 7, NIMA (never in mitosis gene a)-related expressed kinase 7, NimA related protein kinase 7, NIMA-related kinase 7, NimA-related protein kinase 7, Serine/threonine-protein kinase Nek7.
Calculated MW	Calculated MW: 35 kDa; Observed MW: 35 kDa
Uniprot ID	Q8TDX7
Gene ID	140609
Background	Protein kinase which plays an important role in mitotic cell cycle progression. Required for microtubule nucleation activity of the centrosome, robust mitotic spindle formation and cytokinesis. Phosphorylates RPS6KB1.
Cellular Location	Cytoplasm.
Tissue Location	Highly expressed in lung, muscle, testis, brain, heart, liver, leukocyte and spleen. Lower expression in ovary, prostate and kidney. No expression seen in small intestine.



Western Blot - Anti-NEK7 Rabbit mAb [66J20J81]

All lanes: R014707 at 1:1,000 dilution

Lane 1: HCT116 (Human colorectal carcinoma 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

Lane 4: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates

Lane 5: Rat muscle whole tissue lysates

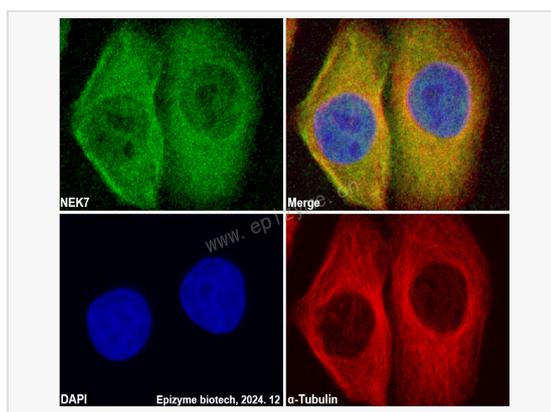
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 35 kDa

Observed band size: 35 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-NEK7 Rabbit mAb [66J20J81]

Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R014707 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).