

Anti-NEK6 Antibody [JE51-72]

ET7110-15



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB
Molecular Wt:	Predicted band size: 36 kDa
Clone number:	JE51-72

Description: Serine/threonine-protein kinase Nek6 is an enzyme that in humans is encoded by the NEK6 gene. The *Aspergillus nidulans* 'never in mitosis A' (NIMA) gene encodes a serine/threonine kinase that controls initiation of mitosis. NIMA-related kinases (NEKs) are a group of protein kinases that are homologous to NIMA. Evidence suggests that NEKs perform functions similar to those of NIMA. It is a protein kinase which plays an important role in mitotic cell cycle progression. Required for chromosome segregation at metaphase-anaphase transition, robust mitotic spindle formation and cytokinesis. Phosphorylates ATF4, CIR1, PTN, RAD26L, RBBP6, RPS7, RPS6KB1, TRIP4, STAT3 and histones H1 and H3. Phosphorylates KIF11 to promote mitotic spindle formation. Involved in G2/M phase cell cycle arrest induced by DNA damage. Inhibition of activity results in apoptosis. May contribute to tumorigenesis by suppressing p53/TP53-induced cancer cell senescence.

Immunogen: Recombinant protein within Human NEK6 aa 170-313 / 313.

Positive control: THP-1 cell lysate, Wild-type 293T whole cell lysate.

Subcellular location: Cytoplasm, Cytoskeleton, Microtubule, Nucleus.

Database links: SwissProt: Q9HC98 Human

Recommended Dilutions:
WB 1:500-1:2,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

Service mail: support@huabio.cn

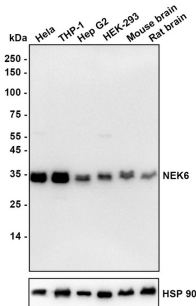
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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of NEK6 on different lysates with Rabbit anti-NEK6 antibody (ET7110-15) at 1/2,000 dilution.

Lane 1: HeLa (Human cervical adenocarcinoma cell) (15 µg/Lane)
Lane 2: THP-1 (Human acute monoclastic leukemia cell) (15 µg/Lane)
Lane 3: Hep G2 (Human hepatocellular carcinoma cell) (15 µg/Lane)
Lane 4: HEK-293 (Human embryonic kidney cell) (15 µg/Lane)
Lane 5: Mouse brain tissue lysate (30 µg/Lane)
Lane 6: Rat brain tissue lysate (30 µg/Lane)



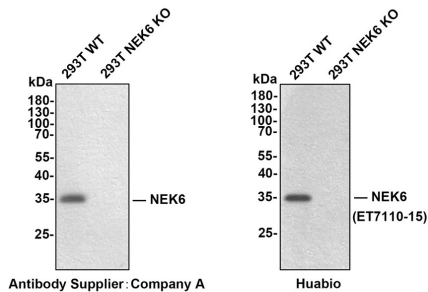
Exposure time: 180 seconds; ECL: K1801

Blocking: 5% NFDM/TBST, 1 hour at room temperature
Primary antibody: ET7110-15, 1/2,000 in primary antibody dilution buffer (K1803), overnight at 4 °C
Secondary antibody: Goat anti-Rabbit IgG-HRP (HA1001), 1/50,000 in 5% NFDM/TBST, 1 hour at room temperature

Predicted band size: 36 kDa
Observed band size: 36 kDa

Fig2: All lanes: Western blot analysis of NEK6 with anti-NEK6 antibody[JE51-72] (ET7110-15) at 1/1,000 dilution.

Lane 1: Wild-type 293T whole cell lysate (30 µg).
Lane 2: NEK6 knockout 293T whole cell lysate (30 µg).



ET7110-15 was shown to specifically react with NEK6 in wild-type 293T cells. No band was observed when NEK6 knockout sample was tested. Wild-type and NEK6 knockout samples were subjected to SDS-PAGE. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM in TBST for 1 hour at room temperature. The primary antibody (ET7110-15, 1/1,000) was used in 5% BSA at room temperature for 2 hours.

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Jee H.J. et. al. Nek6 overexpression antagonizes p53-induced senescence in human cancer cells. Cell Cycle 9:4703-4710(2010).
2. Vaz Meirelles G. et. al. Characterization of hNek6 interactome reveals an important role for its short N-terminal domain and colocalization with proteins at the centrosome. J. Proteome Res. 9:6298-6316(2010).

