

For Research Use Only

NEK7 Recombinant monoclonal antibody

Catalog Number: 87253-1-RR



Basic Information

Catalog Number:

87253-1-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG33629

GenBank Accession Number:

NM_133494

GeneID (NCBI):

140609

UNIPROT ID:

Q8TDX7

Full Name:

NIMA (never in mitosis gene a)-related kinase 7

Calculated MW:

35

Observed MW:

32-35 kDa

Purification Method:

Protein A purification

CloneNo.:

252501C6

Recommended Dilutions:

WB: 1:1000-1:4000

IHC: 1:500-1:2000

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HeLa cells, Jurkat cells, NIH/3T3 cells, C6 cells, RAW 264.7 cells

IHC: mouse spleen tissue,

FC (Intra): A549 cells,

Background Information

Mammalian NIMA-related kinases (NEKs) represent a family of serine/threonine kinases, named NEK1-NEK11, which are implicated in the control of several aspects of mitosis and are involved in non-mitotic functions (PMID: 33364979). NIMA-related kinase 7 (NEK7) is the smallest NIMA-related kinase (NEK) in mammals. NEK7 is identified as a highly conserved serine or threonine kinase, which is not only crucial for mitosis entry, cell cycle progression, cell division, and mitotic process, but also expressed in brain, heart, lung, liver, spleen, and other tissues (PMID: 31787755).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

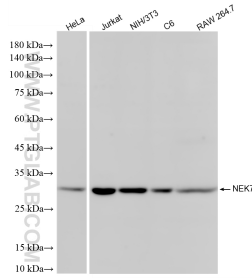
T: 4006900926

E: Proteintech-CN@ptglab.com

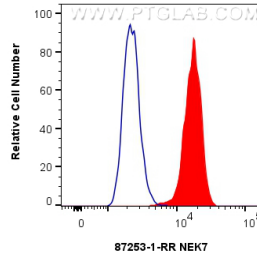
W: ptgcn.com

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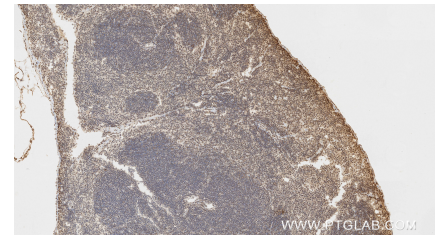
Selected Validation Data



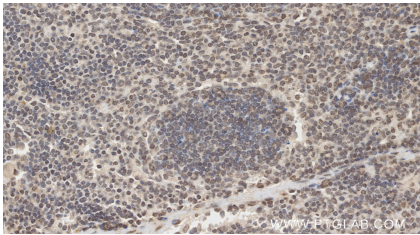
Various lysates were subjected to SDS PAGE followed by western blot with 87253-1-RR (NEK7 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



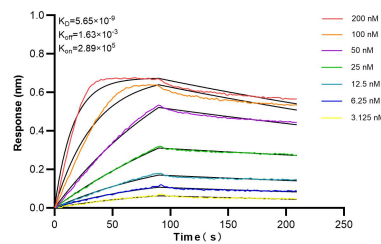
1×10^6 A549 cells were intracellularly stained with 0.25 μ g NEK7 Recombinant monoclonal antibody (87253-1-RR, Clone:252501C6) and CoraLite[®] 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 μ g Isotype Control (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 87253-1-RR (NEK7 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 87253-1-RR (NEK7 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 87253-1-RR against Human NEK7 were performed. The affinity constant is 5.65 nM.