

For Research Use Only

# NEK7 Recombinant monoclonal antibody, PBS Only

Catalog Number: 87253-1-PBS



## Basic Information

**Catalog Number:**

87253-1-PBS

**Size:**

100ug, Concentration: 1 mg/ml by Nanodrop;

**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

## Applications

**Tested Applications:**

WB, IHC, FC (Intra), Indirect ELISA

**Species Specificity:**

human, mouse, rat

## 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 -80°C.

**Storage Buffer:**

PBS only, pH7.3

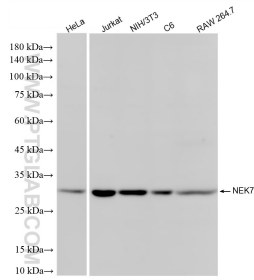
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

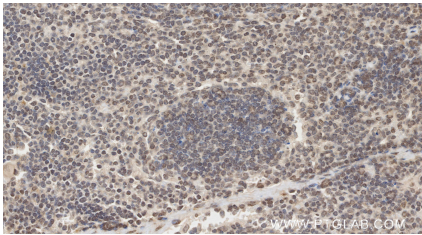
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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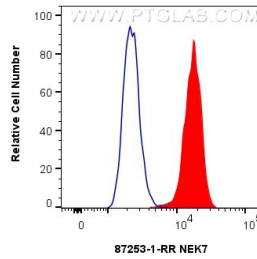
## Selected Validation Data



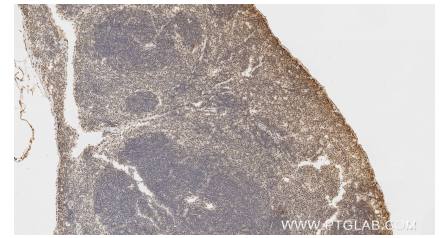
Various lysates were subjected to SDS PAGE followed by western blot with 87253-1-RR (NEK7 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87253-1-PBS in a different storage buffer formulation.



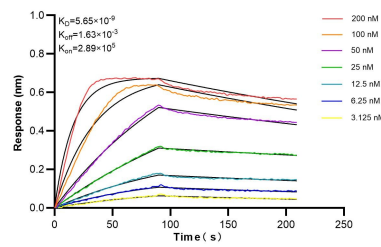
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 87253-1-RR (NEK7 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87253-1-PBS in a different storage buffer formulation.



$1 \times 10^6$  A549 cells were intracellularly stained with 0.25 ug 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 ug Isotype Control (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019). This data was developed using the same antibody clone with 87253-1-PBS in a



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). This data was developed using the same antibody clone with 87253-1-PBS in a different storage buffer formulation.



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