

For Research Use Only

# NADK Recombinant antibody, PBS Only (Capture)

Catalog Number: 84996-1-PBS



## Basic Information

<b>Catalog Number:</b> 84996-1-PBS	<b>GenBank Accession Number:</b> BC001709	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 65220	<b>CloneNo.:</b> 242502B7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O95544	
<b>Isotype:</b> IgG	<b>Full Name:</b> NAD kinase	
<b>Immunogen Catalog Number:</b> AG7906	<b>Calculated MW:</b> 49 kDa	
	<b>Observed MW:</b> 49-52 kDa	

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human, mouse

## Product Information

84996-1-PBS targets NADK as part of a matched antibody pair:

MP01732-1: 84996-1-PBS capture and 84996-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## Background Information

NAD kinase (NADK) is the sole NADP<sup>+</sup>-biosynthetic enzyme that catalyzes phosphorylation of NAD<sup>+</sup> to yield NADP<sup>+</sup> using ATP as a phosphoryl donor, and thus, plays a vital role in the cell and represents a potentially powerful antimicrobial drug target (PMID:21526340). It belongs to the NAD kinase family. NADK has 3 isoforms with the molecular mass of 49, 63 and 46 kDa. The catalytically active human NADK is a homotetramer (PMID:11594753).

## Storage

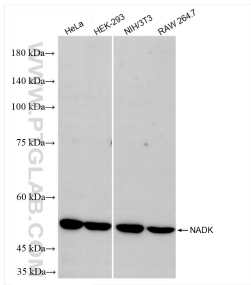
**Storage:**  
Store at -80°C.  
**Storage Buffer:**  
PBS Only

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  
W: ptglab.com

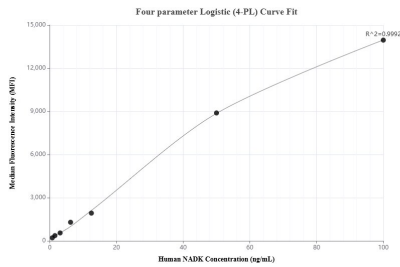
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.



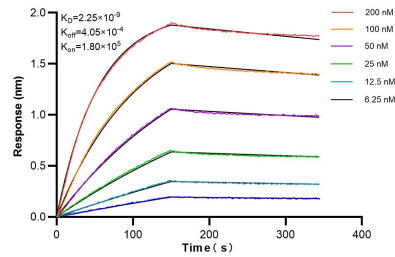
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84996-1-RR (NADK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84996-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01732-1, NADK Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84996-1-PBS. Detection antibody: 84996-2-PBS. Standard: Ag7906. Range: 0.781-100 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 84996-1-RR against Human NADK were performed. The affinity constant is 2.25 nM.