

For Research Use Only

# NSUN7 Recombinant antibody, PBS Only (Capture)

Catalog Number: 84795-1-PBS



## Basic Information

<b>Catalog Number:</b> 84795-1-PBS	<b>GenBank Accession Number:</b> BC036568	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 79730	<b>CloneNo.:</b> 242358B7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8NE18	
<b>Isotype:</b> IgG	<b>Full Name:</b> NOL1/NOP2/Sun domain family, member 7	
<b>Immunogen Catalog Number:</b> AG11650	<b>Calculated MW:</b> 718 aa, 81 kDa	
	<b>Observed MW:</b> 81-90 kDa	

## Applications

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

**Species Specificity:**  
human, rat

## Product Information

84795-1-PBS targets NSUN7 as part of a matched antibody pair.

MP01594-1: 84795-1-PBS capture and 84795-2-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

NSUN7 (NOP2/Sun RNA methyltransferase family member 7) is involved in mitochondrial rRNA processing in post-meiotic sperm and is predicted to act upstream of or within flagellated sperm motility and sperm mitochondrion organization. In humans, Nsun7 encodes a protein with 718-amino acid and 3697-bp belonging to the methyltransferase superfamily (PMID: 37173708). The failure to produce NSUN7 would lead to the impairment in activity and motility of sperm flagella, leading to sperm motility deficit and infertility (PMID: 25702163).

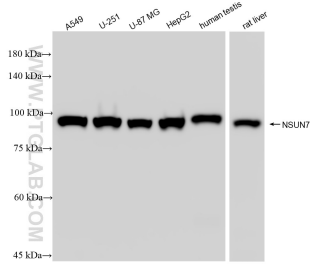
## Storage

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

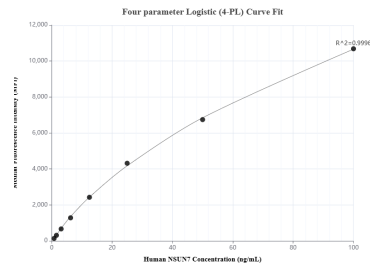
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

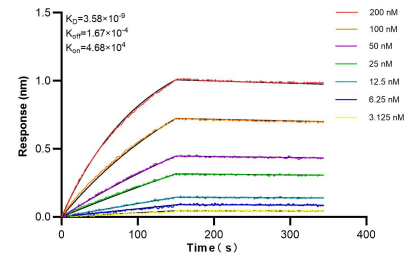
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84795-1-RR (NSUN7 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84795-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01594-1, NSUN7 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84795-1-PBS. Detection antibody: 84795-2-PBS. Standard: Ag11650. Range: 0.781-100 ng/mL



Bi-layer interferometry (BLI) kinetic assays of 84795-1-RR against Human NSUN7 were performed. The affinity constant is 3.58 nM.