

# MNS1 Polyclonal antibody

Catalog Number: 12693-1-AP

## Basic Information

<b>Catalog Number:</b> 12693-1-AP	<b>GenBank Accession Number:</b> BC034991	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 550 µg/ml	<b>GeneID (NCBI):</b> 55329	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8NEH6	
<b>Isotype:</b> IgG	<b>Full Name:</b> meiosis-specific nuclear structural 1	
<b>Immunogen Catalog Number:</b> AG3423	<b>Calculated MW:</b> 495 aa, 61 kDa <b>Observed MW:</b> 55-60 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : rat testis tissue, IHC : human testis tissue,
<b>Species Specificity:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

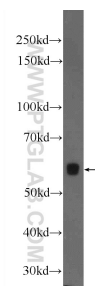
## Background Information

Meiosis-specific nuclear structural 1 (MNS1), is abundantly expressed in post-meiotic spermatids and is required for proper flagellar formation and function. Male mice deficient in MNS1 display decreased sperm production and are sterile because their sperm are immotile. The microtubules and ODFs of the flagella are disrupted, resulting in abnormal, short sperm tails. In addition, MNS1 is also required for motile ciliary functions.

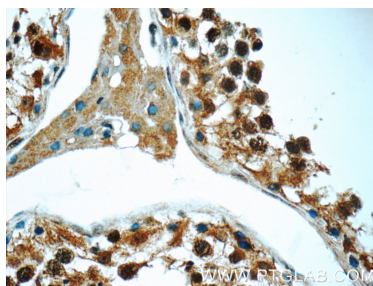
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



rat testis tissue were subjected to SDS PAGE followed by western blot with 12693-1-AP (MNS1 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 12693-1-AP (MNS1 Antibody) at dilution of 1:50 (under 40x lens).