

For Research Use Only

# HYAL4 Polyclonal antibody

Catalog Number: 18139-1-AP

1 Publications



## Basic Information

### Catalog Number:

18139-1-AP

### Size:

150ul, Concentration: 220 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG12766

### GenBank Accession Number:

BC104788

### GeneID (NCBI):

23553

### UNIPROT ID:

Q2M3T9

### Full Name:

hyaluronoglucosaminidase 4

### Calculated MW:

481 aa, 54 kDa

### Observed MW:

60-65 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

**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 : K-562 cells, NIH/3T3 cells, mouse testis tissue, rat testis tissue

IP : mouse testis tissue,

IHC : human testis tissue, human placenta tissue

## Background Information

Hyaluronic acid (HA), a glycosaminoglycan that is ubiquitously present in the extracellular space of higher animals, maintains matrix structure and controls cellular functions such as proliferation, differentiation, and locomotion. Hyal enzymes that catabolize HA, are involved in development and tumorigenesis. HYAL4, a member of the Hyal family, is a chondroitin sulfate (CS)-specific endo- $\beta$ -acetylglucosaminidase. The expression of hHYAL4 mRNA is not ubiquitous but restricted to placenta, skeletal muscle, and testis (PMID: 23086929). This polyclonal antibody raised against 29-460aa of human HYAL4. The apparent molecular weight is larger than the calculated molecular weight of 54 kDa, which is likely due to posttranslational modification, presumably by glycosylation (PMID: 19889881).

## Notable Publications

Author	Pubmed ID	Journal	Application
Xuefeng He	39009952	Appl Biochem Biotechnol	WB, IF

## 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

\*\*\* 20ul sizes contain 0.1% BSA

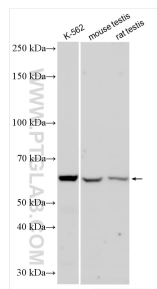
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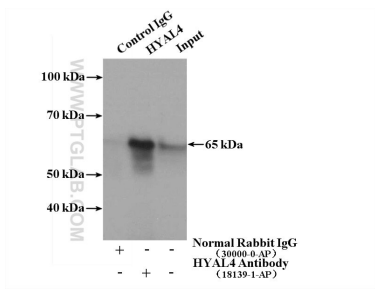
E: proteintech@ptglab.com  
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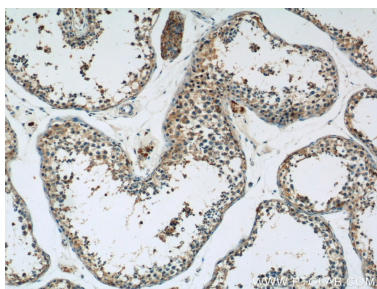
Selected Validation Data



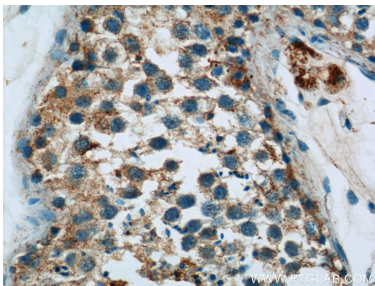
Various lysates were subjected to SDS PAGE followed by western blot with 18139-1-AP (HYAL4 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



IP result of anti-HYAL4 (IP:18139-1-AP, 4ug; Detection:18139-1-AP 1:300) with mouse testis tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 18139-1-AP (HYAL4 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 18139-1-AP (HYAL4 Antibody) at dilution of 1:50 (under 40x lens).