

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: 1:200-1:800

Applications

Tested Applications:

WB, IHC, IP, 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: mouse skin tissue, human placenta tissue, human testis 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- β -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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

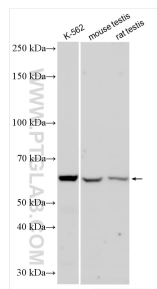
For technical support and original validation data for this product please contact:

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

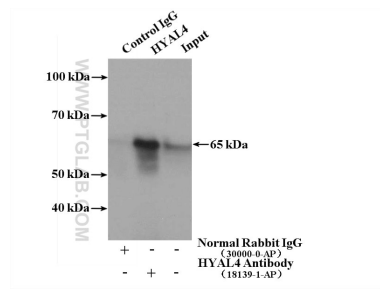
E: proteintech@ptglab.com
W: ptglab.com

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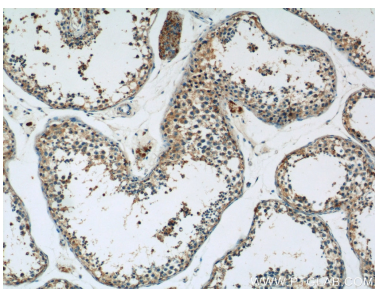
Selected Validation Data



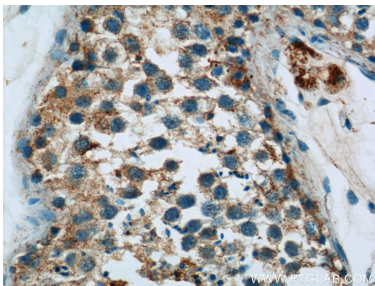
Various lysates were subjected to SDS PAGE followed by western blot with 18139-1-AP (HYAL4 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



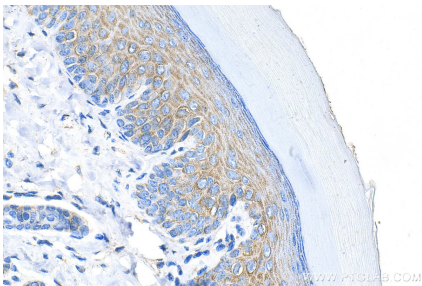
IP result of anti-HYAL4 (IP:18139-1-AP, 4ug; Detection:18139-1-AP 1:300) with mouse testis tissue lysate 4000ug.



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).



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 18139-1-AP (HYAL4 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).