

For Research Use Only

# HEXB Polyclonal antibody

Catalog Number: 16229-1-AP

Featured Product

7 Publications



## Basic Information

### Catalog Number:

16229-1-AP

### Size:

150ul, Concentration: 800 ug/ml by Nanodrop and 347 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG8683

### GenBank Accession Number:

BC017378

### GeneID (NCBI):

3074

### UNIPROT ID:

P07686

### Full Name:

hexosaminidase B (beta polypeptide)

### Calculated MW:

556 aa, 63 kDa

### Observed MW:

63-67 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP

### 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: HEK-293 cells, mouse kidney tissue, Jurkat cells, HeLa cells, mouse lung tissue, rat kidney tissue

IHC: human kidney tissue,

## Background Information

The HEXB (Beta-hexosaminidase subunit beta) gene encodes the beta subunit of the enzyme hexosaminidase, which is involved in the breakdown of gangliosides. It is responsible for the degradation of GM2 gangliosides, and has a variety of other molecules containing terminal N-acetyl hexosamines, in the brain and other tissues. Refer to the domains of HEXB and glycosylation, there will be some different bands with MW 63-67 kDa precursor; 59-63 kDa signal peptide removed; 50-55 kDa subunit beta (or signal and propeptide removed); 20-25 kDa subunit beta chain B; ~30 kDa subunit beta chain A (Uniprot).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yajuan Zhao	34557495	Front Cell Dev Biol	WB, IHC
Sebastian Boland	36207292	Nat Commun	WB
Catrina Sims-Robinson	25976368	Mol Neurobiol	WB

## 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

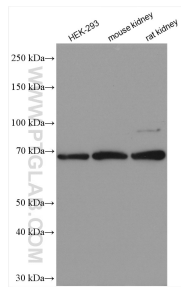
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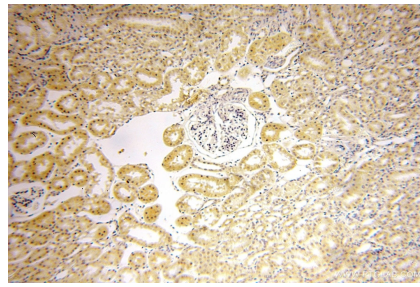
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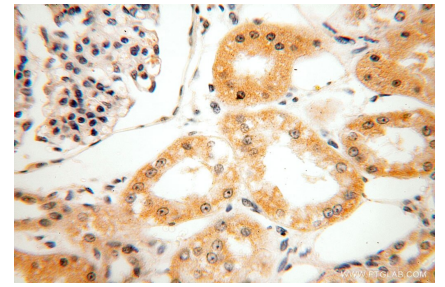
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16229-1-AP (HEXB antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney using 16229-1-AP (HEXB antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney using 16229-1-AP (HEXB antibody) at dilution of 1:50 (under 40x lens).