

For Research Use Only

# GUSB Polyclonal antibody

Catalog Number: 16332-1-AP

Featured Product

7 Publications



## Basic Information

### Catalog Number:

16332-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG9453

### GenBank Accession Number:

BC014142

### GeneID (NCBI):

2990

### UNIPROT ID:

P08236

### Full Name:

glucuronidase, beta

### Calculated MW:

651 aa, 75 kDa

### Observed MW:

78 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

### 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-293T cells, mouse liver tissue, HL-60 cells, mouse heart tissue, K-562 cells, rat liver tissue

**IHC** : human colon cancer tissue, human skin cancer tissue

## Background Information

The GUSB gene encodes beta-glucuronidase, a lysosomal hydrolase involved in the stepwise degradation of glucuronic acid-containing glycosaminoglycans. It is a tetrameric glycoprotein composed of identical subunits. GUSB plays an important role in the degradation of dermatan and keratan sulfates. GUSB has two isoforms with the molecular mass of 75 kDa and 69 kDa, and it always can be detected as 78 kDa, 60 kDa and 18 kDa. The 60 kDa and 18 kDa polypeptides are derived by nicking 78-kDa GUSB subunit at Val159-Gly160 (PMID: 1311180, 9268591).

## Notable Publications

Author	Pubmed ID	Journal	Application
Timothy D Martin	34529489	Science	WB
Ishisaka Akari A	24260490	PLoS One	WB
Kenji Yamaguchi	32511980	J Invest Dermatol	IHC

## 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

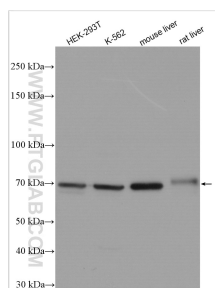
For technical support and original validation data for this product please contact:

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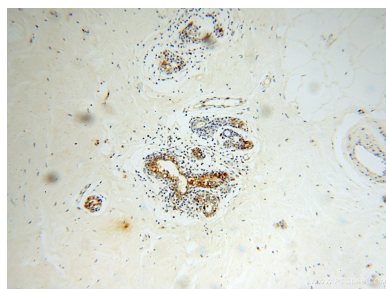
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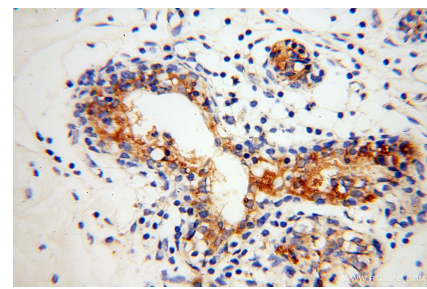
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16332-1-AP (GUSB antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer using 16332-1-AP (GUSB antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer using 16332-1-AP (GUSB antibody) at dilution of 1:50 (under 40x lens).