For Research Use Only

GUSB Polyclonal antibody

Catalog Number:16332-1-AP Featured Product 7 Publications

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Basic Information

Catalog Number:
16332-1-AP

Size:
700 μg/ml

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

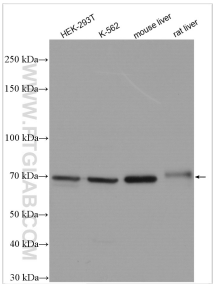
Author	Pubmed ID	Journal	Application
Timothy D Martin	34529489	Science	WB
Ishisaka Akari A	24260490	PLoS One	WB
Kenji Yamaguchi	32511980	J Invest Dermatol	IHC

Storage

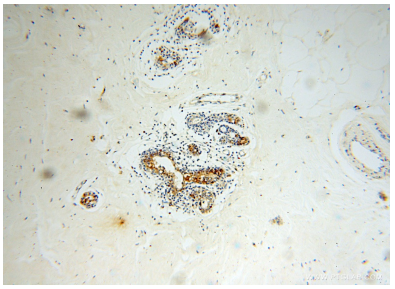
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

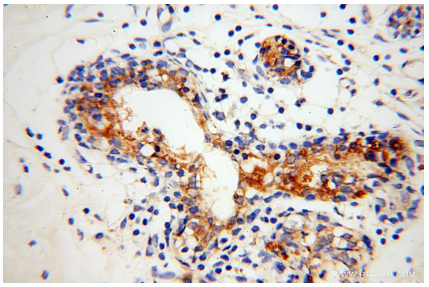
Selected Validation Data



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).