

For Research Use Only

GALNS Polyclonal antibody

Catalog Number: 14933-1-AP

1 Publications



Basic Information

Catalog Number:

14933-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6746

GenBank Accession Number:

BC050684

GeneID (NCBI):

2588

UNIPROT ID:

P34059

Full Name:

galactosamine (N-acetyl)-6-sulfate sulfatase

Calculated MW:

58 kDa

Observed MW:

50-55 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

IHC, IF

Species Specificity:

human

Cited Species:

human

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 : MCF-7 cells, human liver tissue, HepG2 cells, HeLa cells

IHC : human liver cancer tissue,

Background Information

GALNS(N-acetylgalactosamine-6-sulfatase) is also named as chondroitinase and belongs to the sulfatase family. It is one of sulfatases required to degrade glycosaminoglycans (GAGs), keratan sulfate (KS) and chondroitin-6-sulfate (C6S) and the enzyme is a dimer derived from two 60 kDa polypeptides, each of which is processed to 40 kDa and 15 kDa polypeptide subunits linked by disulfide bonds(PMID:15241807). The deduced 522-residue protein is composed of a 26-amino acid N-terminal signal peptide and a mature polypeptide of 496 amino acid residues, including 2 potential asparagine-linked glycosylation sites(PMID:1755850). Defects in GALNS are the cause of mucopolysaccharidosis type 4A (MPS4A), also known as Morquio A syndrome.

Notable Publications

Author	Pubmed ID	Journal	Application
Jin Zhang	37707658	Discov Oncol	IHC,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

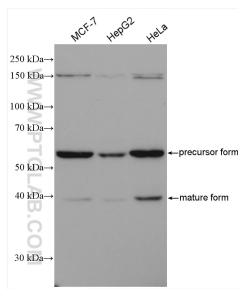
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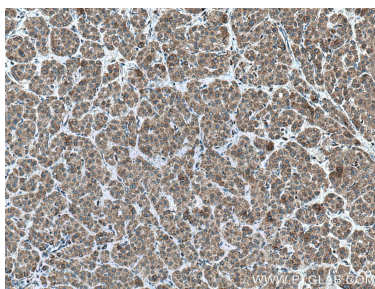
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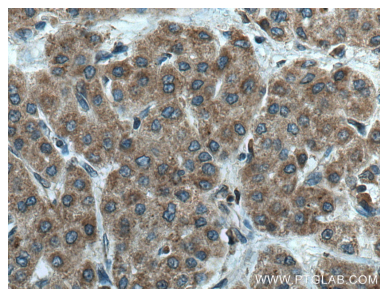
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 14933-1-AP (GALNS antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 14933-1-AP (GALNS antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 14933-1-AP (GALNS antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).