

## GALNS Polyclonal antibody

Catalog Number: 14933-1-AP

1 Publications

## Basic Information

<b>Catalog Number:</b> 14933-1-AP	<b>GenBank Accession Number:</b> BC050684	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 450 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2588	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> galactosamine (N-acetyl)-6-sulfate sulfatase	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 58 kDa	
<b>Immunogen Catalog Number:</b> AG6746	<b>Observed MW:</b> 50-55 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IHC	<b>WB :</b> MCF-7 cells, human liver tissue, HepG2 cells, HeLa cells
<b>Species Specificity:</b> human, mouse	<b>IHC :</b> human liver cancer tissue,
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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.

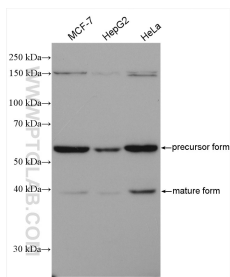
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

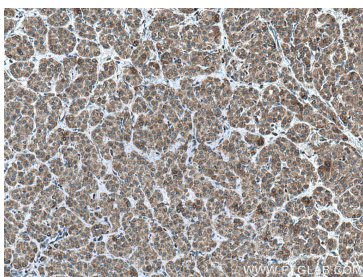
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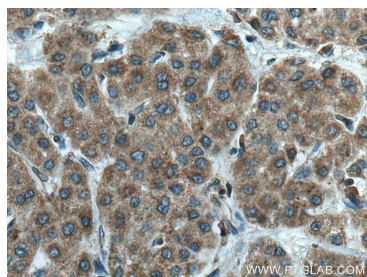
## Selected Validation Data



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).