10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-GALNS Picoband Antibody
Catalog # ABO12999

Specification

Anti-GALNS Picoband Antibody - Product Information

Application	**WB, IHC-P, E**
Primary Accession	P34059
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for GALNS detection. Tested with WB, IHC-P, Direct ELISA in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-GALNS Picoband Antibody - Additional Information

Gene ID 2588

Other Names
N-acetylgalactosamine-6-sulfatase, 3.1.6.4, Chondroitinsulfatase, Chondroitinase, Galactose-6-sulfate sulfatase, GalN6S, N-acetylgalactosamine-6-sulfate sulfatase, GalNAc6S sulfatase, GALNS

Calculated MW
58026 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml

 Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml

 Direct ELISA, 0.1-0.5 µg/ml

Subcellular Localization
Lysosome.

Contents
Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen
E. coli-derived human GALNS recombinant protein (Position: Y181-N289).

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C; for one year. After r˚Constitution, at 4˚C; for one month. It˚Can also be**

aliquotted and stored frozen at -20˚C; for a longer time. Avoid repeated freezing and thawing.

Anti-GALNS Picoband Antibody - Protein Information

Name GALNS

Cellular Location
Lysosome.

Anti-GALNS Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-GALNS Picoband Antibody - Images

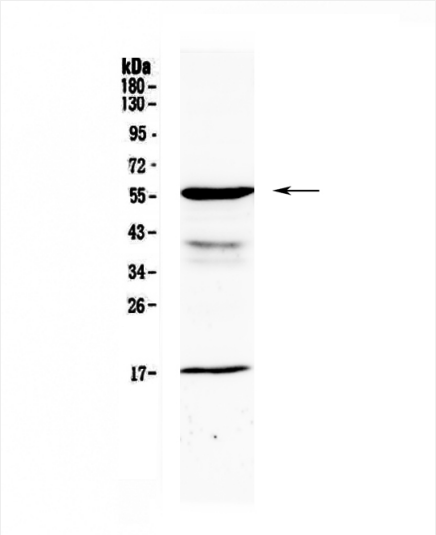

Figure 1. Western blot analysis of GALNS using anti-GALNS antibody (ABO12999). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat small intestine tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GALNS antigen affinity purified polyclonal antibody (Catalog # ABO12999) at 0.5 Î¼g/mL overnight at 4Â°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an

Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for GALNS at approximately 58KD. The expected band size for GALNS is at 58KD.

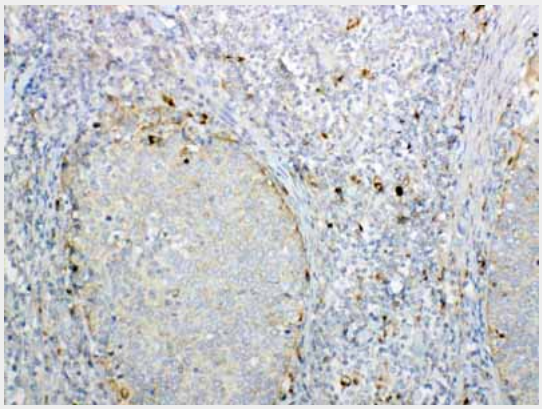

Figure 2. IHC analysis of GALNS using anti-GALNS antibody (ABO12999).GALNS was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1Î¼g/ml rabbit anti-GALNS Antibody (ABO12999) overnight at 4Â°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37Â°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

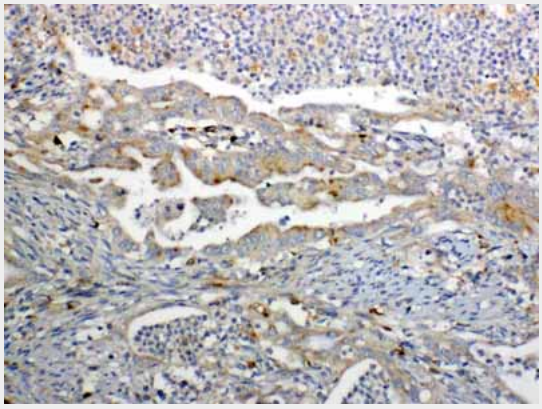

Figure 3. IHC analysis of GALNS using anti-GALNS antibody (ABO12999).GALNS was detected in paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1Î¼g/ml rabbit anti-GALNS Antibody (ABO12999) overnight at 4Â°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37Â°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

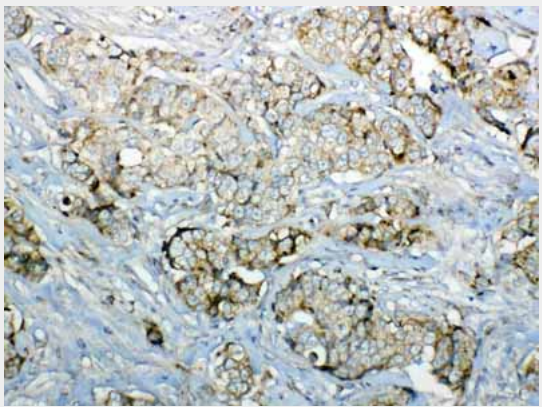

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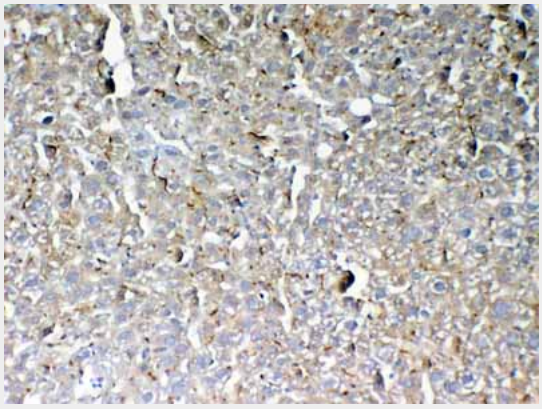
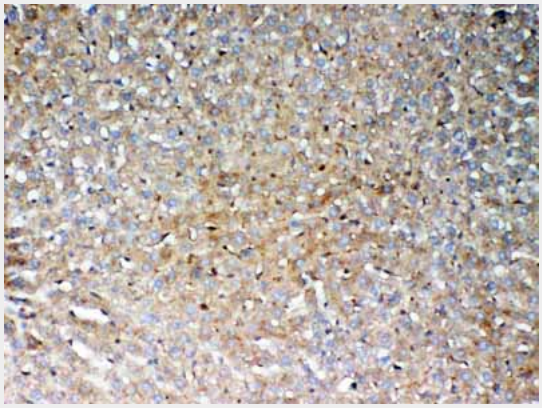
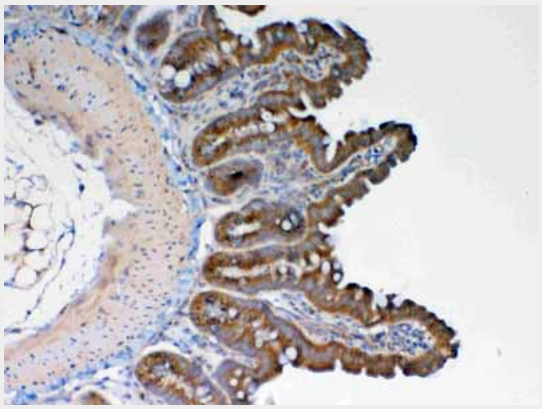
Figure 4. IHC analysis of GALNS using anti-GALNS antibody (ABO12999).







Anti-GALNS Picoband Antibody - Background

N-acetylgalactosamine-6-sulfatase is an enzyme that, in humans, is encoded by the GALNS gene. This gene encodes N-acetylgalactosamine-6-sulfatase which is a lysosomal exohydrolase required for the degradation of the glycosaminoglycans, keratan sulfate, and chondroitin 6-sulfate. Sequence alterations including point, missense and nonsense mutations, as well as those that affect splicing, result in a deficiency of this enzyme. Deficiencies of this enzyme lead to Morquio A syndrome, a lysosomal storage disorder.