
Product Name: GCNT3 Rabbit Polyclonal Antibody**Catalog #: APRab11360**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	IHC,ICC/IF,ELISA
Reactivity	Human,Rat,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000

Molecular Weight

Antigen Information

Gene Name	GCNT3
Alternative Names	GCNT3; Beta-1; 3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase 3; C2GnT-mucin type; C2GnT-M; hC2GnT-M; Core 2/core 4 beta-1,6-N-acetylglucosaminyltransferase; C2/4GnT
Gene ID	9245.0
SwissProt ID	O95395
Immunogen	The antiserum was produced against synthesized peptide derived from human GCNT3. AA range:226-275

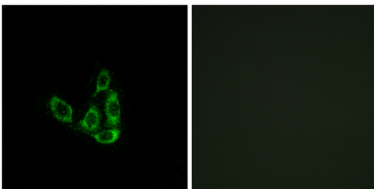
Background

This gene encodes a member of the N-acetylglucosaminyltransferase family. The encoded protein is a beta-6-N-acetylglucosamine-transferase that catalyzes the formation of core 2 and core 4 O-glycans on mucin-type glycoproteins. [provided by RefSeq, Apr 2009],catalytic activity:UDP-N-acetyl-D-glucosamine + beta-D-galactosyl-1,3-N-acetyl-D-galactosaminyl-R = UDP + beta-D-galactosyl-1,3-(N-acetyl-beta-D-glucosaminyl-1,6)-N-acetyl-D-galactosaminyl-R.,catalytic activity:UDP-N-acetyl-D-glucosamine + beta-D-galactosyl-1,4-N-acetyl-D-glucosaminyl-R = UDP + N-acetyl-beta-D-glucosaminyl-1,6-beta-D-galactosyl-1,4-N-acetyl-D-glucosaminyl-R.,function:Glycosyltransferase that can synthesize all known mucin beta 6 N-acetylglucosaminides. Mediates core 2 and core 4 O-glycan branching, 2 important steps in mucin-type biosynthesis. Has also I-branching enzyme activity by converting linear into branched poly-N-acetylglucosaminoglycans, leading to introduce the blood group I antigen during embryonic development.,induction:By all-trans retinoic acid (ATRA), TNF-alpha and IL13. Strongly down-regulated in colorectal cancer.,online information:Core 2/core 4 beta-1,6-N-acetylglucosaminyltransferase,online information:GlycoGene database,pathway:Protein modification; protein glycosylation.,PTM:N-glycosylated.,similarity:Belongs to the glycosyltransferase 14 family.,tissue specificity:Primarily expressed in mucus-secreting tissues. Expressed in colon, kidney, small intestine, trachea, and stomach, where mucin is produced.,

Research Area

O-Glycan biosynthesis;

Image Data



Immunofluorescence analysis of A549 cells, using GCNT3 Antibody. The picture on the right is blocked with the synthesized peptide.