

GALNT3 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9208C

Specification

GALNT3 Antibody (Center) - Product Information

Application	FC, IHC-P, WB,E
Primary Accession	Q14435
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	72610
Antigen Region	454-481

GALNT3 Antibody (Center) - Additional Information

Gene ID 2591

Other Names

Polypeptide N-acetylgalactosaminyltransferase 3, Polypeptide GalNAc transferase 3, GalNAc-T3, pp-GaNTase 3, Protein-UDP acetylgalactosaminyltransferase 3, UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 3, GALNT3

Target/Specificity

This GALNT3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 454-481 amino acids from the Central region of human GALNT3.

Dilution

FC~~1:10~50

IHC-P~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

GALNT3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

GALNT3 Antibody (Center) - Protein Information

Name GALNT3

Function Catalyzes the initial reaction in O-linked oligosaccharide biosynthesis, the transfer of an N-acetyl-D-galactosamine residue to a serine or threonine residue on the protein receptor (PubMed:[16638743](#), PubMed:[31932717](#), PubMed:[8663203](#), PubMed:[9295285](#)). Has activity toward HIV envelope glycoprotein gp120, EA2, MUC2, MUC1A and MUC5AC (PubMed:[8663203](#), PubMed:[9295285](#)). Probably glycosylates fibronectin in vivo (PubMed:[9295285](#)). Glycosylates FGF23 (PubMed:[16638743](#), PubMed:[31932717](#)).

Cellular Location

Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein. Note=Resides preferentially in the trans and medial parts of the Golgi stack

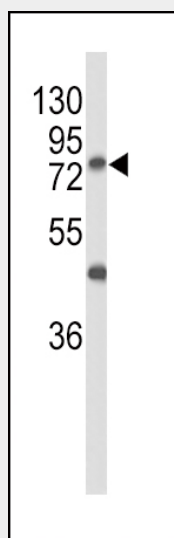
Tissue Location

Expressed in organs that contain secretory epithelial glands. Highly expressed in pancreas, skin, kidney and testis. Weakly expressed in prostate, ovary, intestine and colon. Also expressed in placenta and lung and fetal lung and fetal kidney

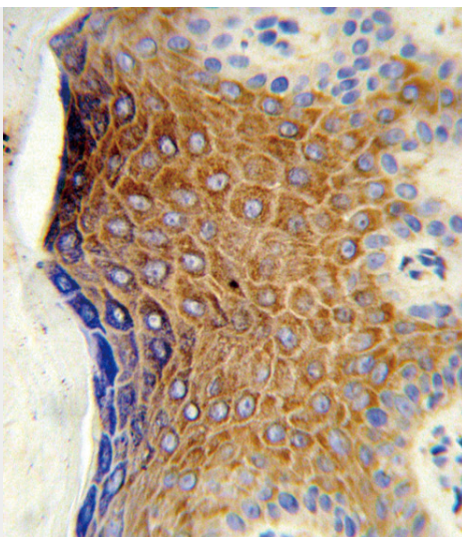
GALNT3 Antibody (Center) - Protocols

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

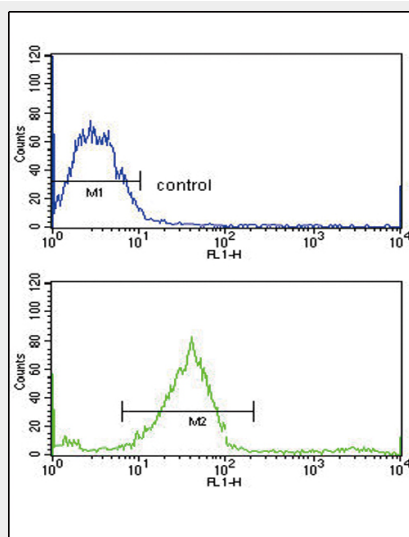
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GALNT3 Antibody (Center) - Images

Western blot analysis of GALNT3 Antibody (Center) (Cat. #AP9208c) in MCF-7 cell line lysates (35ug/lane). GALNT3 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human skin tissue reacted with GALNT3 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



GALNT3 Antibody (Center) (Cat. #AP9208c) flow cytometric analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

GALNT3 Antibody (Center) - Background

GALNT3 encodes UDP-GalNAc transferase 3, a member of the GalNAc-transferases family. This family transfers an N-acetyl galactosamine to the hydroxyl group of a serine or threonine residue in the first step of O-linked oligosaccharide biosynthesis. Individual GalNAc-transferases have distinct activities and initiation of O-glycosylation is regulated by a repertoire of GalNAc-transferases. The protein is highly homologous to other family members, however the enzymes have different substrate specificities.

GALNT3 Antibody (Center) - References

Joseph, L., et al., Skeletal Radiol. 39 (1), 63-68 (2010)
Masi, L., et al., J Bone Joint Surg Am 91 (5), 1190-1198 (2009)

Chefetz, I., et.al, Biochim. Biophys. Acta 1792 (1), 61-67 (2009)

GALNT3 Antibody (Center) - Citations

- [GALNT3 Maintains the Epithelial State in Trophoblast Stem Cells.](#)