

# GALNT3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)  
Catalog # AP9208C

## Product Information

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<b>Application</b>	WB, IHC-P, FC, E
<b>Primary Accession</b>	<a href="#">Q14435</a>
<b>Reactivity</b>	Mouse, Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB21148
<b>Calculated MW</b>	72610
<b>Antigen Region</b>	454-481

## Additional Information

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<b>Gene ID</b>	2591
<b>Other Names</b>	Polypeptide N-acetylgalactosaminyltransferase 3, Polypeptide GalNAc transferase 3, GalNAc-T3, pp-GaNTase 3, Protein-UDP acetylgalactosaminyltransferase 3, UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 3, GALNT3
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	GALNT3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	GALNT3
<b>Function</b>	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

## Background

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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.

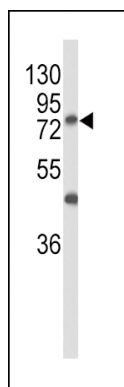
## References

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- 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)

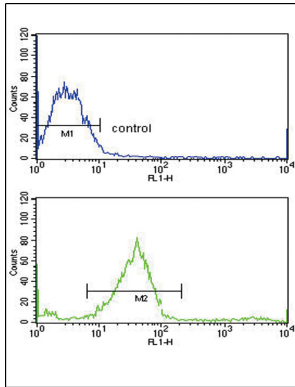
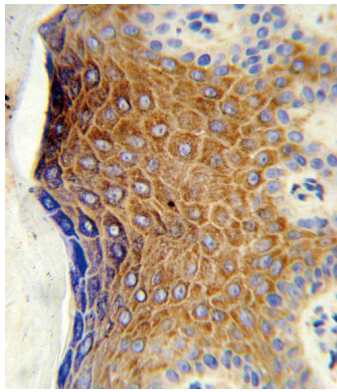
## Images

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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.

## Citations

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.