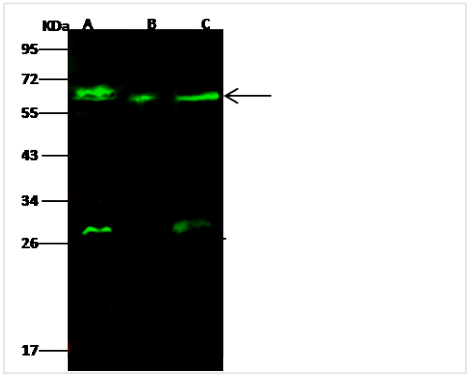
GALNT2 Antibody – Rabbit Polyclonal

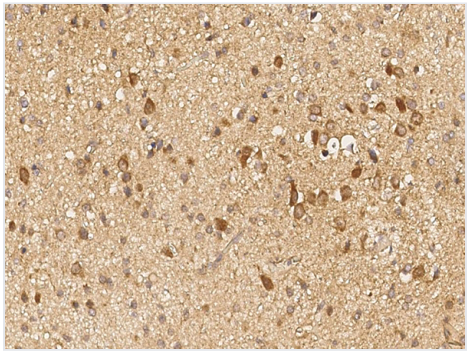
PRODUCT OVERVIEW

Product Name	GALNT2, Polyclonal Antibody
Full Product Name	Anti-GALNT2 Antibody, Rabbit Polyclonal
Product Gene Name	anti-GALNT2 antibody
Product Synonym Names	GALNT2/GalNAc-T2 Antibody, Rabbit PAb, Antigen Affinity Purified; polypeptide N-acetylgalactosaminyltransferase 2; Anti-GalNAc-T2 Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Human GALNT2/GalNAc-T2
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	30,256 Da
OMIM	602274
3D Structure	ModBase 3D Structure for Q10471
Immunogen	Recombinant Human GALNT2/GalNAc-T2 Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human GALNT2/GalNAc-T2 (rh GALNT2/GalNAc-T2). GALNT2/GalNAc-T2 specific IgG was purified by Human GALNT2/GalNAc-T2 affinity chromatography.
Applications Tested/Suitable for anti-GALNT2 antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry-Paraffin (IHC-P), Immunocytochemistry (ICC), Immunofluorescence (IF), Immunoprecipitation (IP)
Application Notes for anti-GALNT2 antibody	WB: 1:500-1:2000 ELISA: 1:5000-1:10,000 IHC-P: 1:500-1:2000 ICC/IF: 1:300-1:10,000 IP: 1-4uL/mg of lysate
Related Product Information for anti-GALNT2 antibody	GALNT2, also known as GalNAc-T2, is a member of the GalNAc-transferases family. Members of this family transfer an N-acetyl galactosamine to the hydroxyl group of a serine or threonine residue in the first step of O-linked oligosaccharide biosynthesis. GALNT2 may play a role in lipid metabolism. It 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. GALNT2 has a broad spectrum of substrates for peptides such as EA2, Muc5AC, Muc1a, Muc1b.
Product References and Citations for anti-GALNT2 antibody	Bennett EP. et al., 1998, Glycobiology. 8 (6): 547-55. White T. et al., 1995, J Biol Chem. 270 (41): 24156-65. Bennett EP. et al., 1996, J Biol Chem. 271 (29): 17006-12. Holleboom AG. et al., 2011, Cell Metab. 14 (6): 811-8.

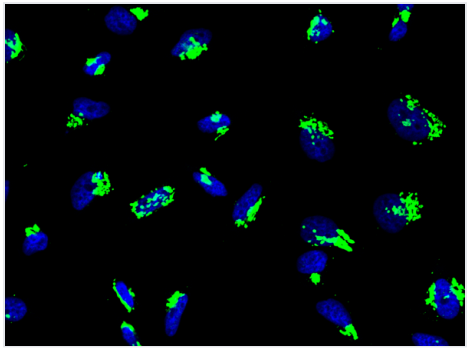
Other Notes	Small volumes of anti-GALNT2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GALNT2 purchase	MBS8107072 is an antibody targeting GALNT2. Also known as Anti-GALNT2 Antibody, Rabbit Polyclonal. Reactive in Human. Host: Rabbit.



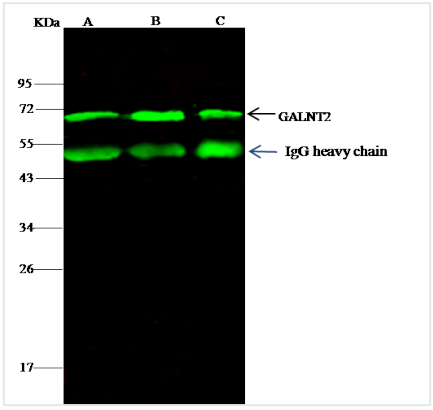
Western Blot (WB) of anti-GALNT2 antibody
Anti-GALNT2 rabbit polyclonal antibody at 1:500 dilutionLane A: A549 Whole Cell LysateLane B: Hela Whole Cell LysateLane C: U87MG Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti- Rabbit IgG H&L (Dylight 800) at 1/10000 dilution.Developed using the Odyssey technique. Performed under reducing conditions.Predicted band size:65 kDaObserved band size:65 kDa(We are unsure as to the identity of these extra bands.)



Immunohistochemistry (IHC) of anti-GALNT2 antibody
Immunochemical staining of human GALNT2 in human brain with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).



Immunofluorescence (IF) of anti-GALNT2 antibody
Immunofluorescence staining of GALNT2 in HeLa cells. Cells were fixed with 4% PFA, permeabilzed with 0.3% Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-human GALNT2 polyclonal antibody (1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm.



Immunoprecipitation (IP) of anti-GALNT2 antibody
GALNT2 was immunoprecipitated using:Lane A:0.5 mg A549 Whole Cell LysateLane B:0.5 mg Hela Whole Cell LysateLane C:0.5 mg U87MG Whole Cell Lysate4 uL anti-GALNT2 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose.Primary antibody:Anti-GALNT2 rabbit polyclonal antibody,at 1:100 dilution Secondary antibody:Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odssey technique.Performed under reducing conditions.Predicted band size: 71 kDaObserved band size: 71 kDa

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GALNT2. It may not necessarily be applicable to this product.

NCBI GI #	4758412
NCBI GeneID	2590
NCBI Accession #	NP_004472.1
UniProt Primary Accession #	Q10471
UniProt Secondary Accession #	Q9NPY4; A8K1Y3; B7Z8V8; C5HU00
UniProt Related Accession #	Q10471

GenBank Nucleotide #	NM_004481.4
NCBI Official Full Name	polypeptide N-acetylgalactosaminyltransferase 2
NCBI Official Synonym Full Names	polypeptide N-acetylgalactosaminyltransferase 2
NCBI Official Symbol	GALNT2
NCBI Official Synonym Symbols	GalNAc-T2
UniProt Protein Name	Polypeptide N-acetylgalactosaminyltransferase 2
UniProt Synonym Protein Names	Polypeptide GalNAc transferase 2; GalNAc-T2; pp-GaNTase 2; Protein-UDP acetylgalactosaminyltransferase 2; UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 2Polypeptide N-acetylgalactosaminyltransferase 2 soluble form
Protein Family	Polypeptide N-acetylgalactosaminyltransferase
UniProt Gene Name	GALNT2
UniProt Synonym Gene Names	GalNAc-T2; pp-GaNTase 2
UniProt Entry Name	GALT2_HUMAN
NCBI Protein Information	polypeptide N-acetylgalactosaminyltransferase 2
NCBI Summary for GALNT2	This gene encodes a member of the glycosyltransferase 2 protein family. Members of this family initiate mucin-type O-glycoslation of peptides in the Golgi apparatus. The encoded protein may be involved in O-linked glycosylation of the immunoglobulin A1 hinge region. This gene may influence triglyceride levels, and may be involved Type 2 diabetes, as well as several types of cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]
Research Articles on GALNT2	**1.** Possible inter-locus interactions among the DOCK7, PCSK9 and GALNT2 SNPs were also noted.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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