

anti-Human B3GNT8 Polyclonal Antibody | anti-B3GNT8 antibody

Anti-B3GNT8 Antibody

CATALOG # AAA46357	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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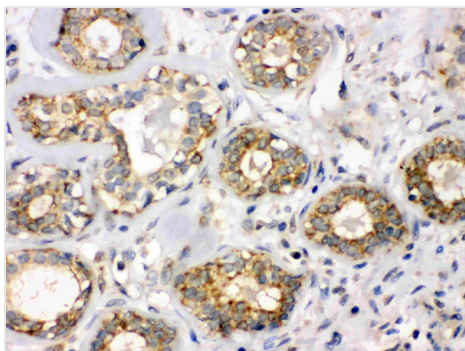
PRODUCT SYNONYMS

B3GNT8; Polyclonal Antibody; Anti-B3GNT8 Antibody; UDP-GlcNAc:betaGal beta-1; 3-N-acetylglucosaminyltransferase 8; 3-Gn-T8; B3GN8_HUMAN; B3gnt8; Beta-1; Beta3Gn-T8; BGnT-8; anti-B3GNT8 antibody

PRODUCT SPECIFICATIONS

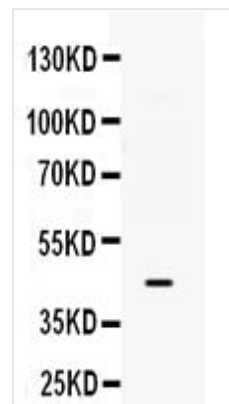
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	397
Applicable Applications for anti-B3GNT8 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human B3GNT8 (360-397aa ADRTADHCAFRNLLLVRLGPQASIRLWKQLQDPRLQC), different from the related mouse sequence by sixteen amino acids.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

Anti- B3GNT8 Picoband antibody, AAA46357, IHC(P) IHC(P): Human Mammary Cancer Tissue



WB (Western Blot)

Anti- B3GNT8 Picoband antibody, AAA46357, Western blotting All lanes: Anti B3GNT8 (AAA46357) at 0.5ug/ml WB: HELA Whole Cell Lysate at 40ug Predicted bind size: 43KD Observed bind size: 43KD

ADDITIONAL INFORMATION

Related Product Information for anti-B3GNT8 antibody	Description: Rabbit IgG polyclonal antibody for UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8(B3GNT8) detection. Tested with WB, IHC-P in Human. Background: B3GNT8 is a galactosyltransferase involved in the synthesis of poly-N-acetylactosamine (polyLacNAc), a linear chain of repeating LacNAc units made up of galactose (Gal) and N-acetylglucosamine (GlcNAc) with the structure (Gal-beta-1-4-GlcNAc-beta-1-3)n. By genomic sequence analysis, the B3GNT8 gene is mapped to chromosome 19q13.2. It was showed that a soluble form of B3GNT8 overexpressed by transfected HEK293 cells selectively transferred GlcNAc from UDP-GlcNAc to the nonreducing terminus of Gal-beta-1-4-GlcNAc-alpha-p-nitrophenyl phosphate and to lactoside-alpha-benzoyl. It did not utilize keratan sulfates or polyactosamine oligosaccharide as substrate. B3GNT8 activity required Mn(2+) and showed less efficiency with Co(2+). The pH optimum was between 7 and 7.5. B3GNT8 also transferred GlcNAc onto alpha-1-acid glycoprotein and ovomucoid, which possess tetraantennary complex type and pentaantennary complex type N-glycans. With a tetraantennary N-glycan substrate, B3GNT8 appeared to prefer the beta-1-2 branch over the beta-1-6 branch. When overexpressed in HCT15 human colon cancer cells, B3GNT8 increased cell surface expression of both polyLacNAc and beta-1-6-branched N-glycans.
References	1. Ishida, H., Togayachi, A., Sakai, T., Iwai, T., Hiruma, T., Sato, T., Okubo, R., Inaba, N., Kudo, T., Gotoh, M., Shoda, J., Tanaka, N., Narimatsu, H. A novel beta-1,3-N-acetylglucosaminyltransferase (beta-3Gn-T8), which synthesizes poly-N-acetylactosamine, is dramatically upregulated in colon cancer. FEBS Lett. 579: 71-78, 2005. 2. Seko, A., Yamashita, K. Activation of beta-1,3-N-acetylglucosaminyltransferase-2 (beta-3Gn-T2) by beta-3Gn-T8: possible involvement of beta-3Gn-T8 in increasing poly-N-acetylactosamine chains in differentiated HL-60 cells. J. Biol. Chem. 283: 33094-33100, 2008.

NCBI AND UNIPROT INFORMATION

NCBI GI #	38348376
NCBI GeneID	374907
NCBI Accession #	NP_940942.1
NCBI GenBank Nucleotide #	NM_198540.2
UniProt Accession #	Q7Z7M8
Molecular Weight	43,396 Da
NCBI Official Full Name	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8
NCBI Official Synonym Full Names	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8
NCBI Official Symbol	B3GNT8
NCBI Official Synonym Symbols	B3GALT7; BGALT15; beta3Gn-T8
NCBI Protein Information	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8
UniProt Protein Name	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8
UniProt Gene Name	B3GNT8
UniProt Synonym Gene Names	BGnT-8; Beta-1,3-Gn-T8; Beta-1,3-N-acetylglucosaminyltransferase 8; Beta3Gn-T8
UniProt Entry Name	B3GN8_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.