Recombinant Human GCNT1, GST-tagged

Cat. No. GCNT1-13198H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GCNT1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	41-428a.a.
Description	This gene encodes a member of a family of UDP-GalNAc:polypeptide N-acetylgalacto saminyltransferases, which catalyze the transfer of N-acetylgalactosamine (GalNAc) f rom UDP-GalNAc to a serine or threonine residue on a polypeptide acceptor in the ini tial step of O-linked protein glycosylation. Mutations in this gene are associated with a n increased susceptibility to colorectal cancer.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	GCNT1 glucosaminyl (N-acetyl) transferase 1, core 2 [Homo sapiens]

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Official Symbol	GCNT1
Synonyms	GCNT1; glucosaminyl (N-acetyl) transferase 1, core 2; glucosaminyl (N acetyl) transferase 1, core 2 (beta 1,6 N acetylglucosaminyltransferase) , NACGT2; beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase; beta 1; 3 galactosyl O glycosyl glycoprotein beta 1; 6 N acetylglucosaminyltransferase; C2GNT; core 2 beta1; 6 N acetylglucosaminyltransferase I; NAGCT2; core 2 GnT; core 2 branching enzyme; core 2-branching enzyme; core2-GlcNAc-transferase; beta-1,6-N-acetylglucosaminyltransferase; core 2 beta1,6 N-acetylglucosaminyltransferase-I; core 2 beta-1,6-N-acetylglucosaminyltransferase I; beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N--acetylglucosaminyltransferase; glucosaminyl (N-acetyl) transferase 1, core 2 (beta-1,6-N-acetylglucosaminyltransferase); G6NT; C2GNT1; NACGT2; C2GNT-L; MGC126335; MGC126336;
Gene ID	2650
mRNA Refseq	NM_001097633
Protein Refseq	NP_001091102
MIM	600391
UniProt ID	Q02742
Chromosome Location	9q13
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; Mucin type O-Glycan biosynthesis, organism-specific biosystem; Mucin type O-Glycan biosynthesis, conserved biosystem; O-glycan biosynthesis,

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	mucin type core, organism-specific biosystem; O-glycan biosynthesis, mucin type core, conserved biosystem; O-linked glycosylation of mucins, organism-specific biosystem;
Function	beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase activity; transferase activity, transferring glycosyl groups;

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