# GCNT4 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | GCNT4, Polyclonal Antibody |
| **Full Product Name** | GCNT4 Conjugated Antibody |
| **Product Gene Name** | anti-GCNT4 antibody |
| **Product Synonym Names** | GCNT4; Core2-GlcNAc-transferase 3; Core 2-branching enzyme 3; C2GNT3 |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | 0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide |
| **Specificity** | GCNT4 antibody detects endogenous levels of total GCNT4 |
| **Preparation and Storage** | Store at 4 degree C for 6 months. |
| **Molecular Weight** | 53,052 Da |
| **3D Structure** | ModBase 3D Structure for Q9P109 |
| **Immunogen** | A synthesized peptide derived from human GCNT4 |
| **Conjugation** | Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750 |
| **Excitation Emission** | AF350: 346nm/442nm |
| **Applications Tested/Suitable for anti-GCNT4 antibody** | Most Applications |
| **Application Notes for anti-GCNT4 antibody** | Suggested Dilution:<br>AF350 conjugated: most applications: 1:50-1:250<br>AF405 conjugated: most applications: 1:50-1:250<br>AF488 conjugated: most applications: 1:50-1:250<br>AF555 conjugated: most applications: 1:50-1:250<br>AF594 conjugated: most applications: 1:50-1:250<br>AF647 conjugated: most applications: 1:50-1:250<br>AF680 conjugated: most applications: 1:50-1:250<br>AF750 conjugated: most applications: 1:50-1:250<br>Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000 |
| **Related Product Information for anti-GCNT4 antibody** | MBS9453754 is an antibody targeting GCNT4. Also known as GCNT4 Conjugated Antibody. Reactive in Human. Host: Rabbit. |
| **Other Notes** | Small volumes of anti-GCNT4 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. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GCNT4. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 7706127 |
| **NCBI GeneID** | 51301 |

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| **NCBI Accession #** | NP_057675.1 |
| **UniProt Primary Accession #** | Q9P109 |
| **UniProt Related Accession #** | Q9P109 |
| **GenBank Nucleotide #** | NM_016591.2 |
| **NCBI Official Full Name** | beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase 4 |
| **NCBI Official Synonym Full Names** | glucosaminyl (N-acetyl) transferase 4, core 2 |
| **NCBI Official Symbol** | GCNT4 |
| **NCBI Official Synonym Symbols** | C2GNT3 |
| **UniProt Protein Name** | Beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase 4 |
| **UniProt Synonym Protein Names** | Core 2-branching enzyme 3; Core2-GlcNAc-transferase 3; C2GnT3 |
| **Protein Family** | Beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase |
| **UniProt Gene Name** | GCNT4 |
| **UniProt Synonym Gene Names** | C2GnT3 |
| **UniProt Entry Name** | GCNT4_HUMAN |
| **NCBI Protein Information** | beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase 4 |
| **UniProt Comments for GCNT4** | GCNT4: Glycosyltransferase that mediates core 2 O-glycan branching, an important step in mucin-type biosynthesis. Does not have core 4 O-glycan or I-branching enzyme activity. Belongs to the glycosyltransferase 14 family.<br><br>Protein type: Glycan Metabolism - O-glycan biosynthesis; EC 2.4.1.102; Membrane protein, integral; Transferase<br><br>Chromosomal Location of Human Ortholog: 5q12<br><br>Cellular Component: Golgi membrane; integral to membrane<br><br>Molecular Function: beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase activity; N-acetyllactosaminide beta-1,6-N-acetylglucosaminyltransferase activity<br><br>Biological Process: protein amino acid O-linked glycosylation; tissue morphogenesis; cellular protein metabolic process; O-glycan processing; carbohydrate metabolic process; homeostasis of number of cells; post-translational protein modification; thyroid hormone metabolic process |
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