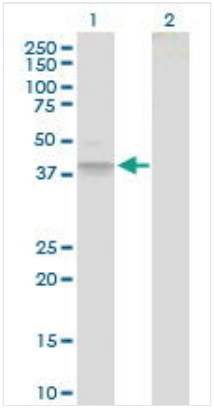
# B3GAT3 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | B3GAT3, Polyclonal Antibody |
| **Full Product Name** | B3GAT3 (Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 3, Beta-1,3-glucuronyltransferase 3, Glucuronosyltransferase I, UDP-GlcU |
| **Product Gene Name** | anti-B3GAT3 antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human B3GAT3. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor |
| **Molecular Weight** | 37,122 Da |
| **OMIM** | 245600 |
| **3D Structure** | ModBase 3D Structure for O94766 |
| **Immunogen** | Full length human B3GAT3, aa1-335 (NP_036332.2). |
| **Immunogen Sequence** | MKLKLKNVFLAYFLVSIAGLLYALVQLGQPCDCLPPLRAAAEQLRQKDLRISQLQAELRRPPPAPAQPPEPEALPTIYVVTPTYARLVQKAELVRLSQTLSLV |
| **Conjugate** | Biotin |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-B3GAT3 antibody** | Antibodies; Enzymes; Glucuronosyltransferase |
| **Applications Tested/Suitable for anti-B3GAT3 antibody** | Western Blot (WB) |
| **Application Notes for anti-B3GAT3 antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-B3GAT3 antibody** | The protein encoded by this gene is a member of the glucuronyltransferase gene family, enzymes that exhibit strict acceptor specificity, recognizing no |
| **Other Notes** | Small volumes of anti-B3GAT3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nece |

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| **Searchable Terms for B3GAT3 purchase** | MBS6370839 is an antibody targeting B3GAT3. Also known as B3GAT3 (Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 3, Beta-1,3 |




**Western Blot (WB) of anti-B3GAT3 antibody**
Western Blot analysis of B3GAT3 expression in transfected 293T cell line by B3GAT3 polyclonal antibody. Lane 1: B3GAT3 transfected lysate (37.1kD). Lane 2: Non-transfected lysate.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for B3GAT3. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 12408654 |
| **NCBI GeneID** | 26229 |
| **NCBI Accession #** | NP_036332.2 |
| **UniProt Primary Accession #** | O94766 |
| **UniProt Secondary Accession #** | Q96I06; Q9UEP0 |
| **UniProt Related Accession #** | O94766 |
| **GenBank Nucleotide #** | NM_012200.2 |
| **NCBI Official Full Name** | galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 3 isoform 1 |
| **NCBI Official Synonym Full Names** | beta-1,3-glucuronyltransferase 3 |
| **NCBI Official Symbol** | B3GAT3 |
| **NCBI Official Synonym Symbols** | GLCATI; glcUAT-I |
| **UniProt Protein Name** | Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 3 |
| **UniProt Synonym Protein Names** | Beta-1,3-glucuronyltransferase 3; Glucuronosyltransferase I; GlcAT-I; UDP-GlcUA:Gal beta-1,3-Gal-R glucuronyltransferase; GlcUAT-I |
| **Protein Family** | Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase |
| **UniProt Gene Name** | B3GAT3 |
| **UniProt Synonym Gene Names** | GlcAT-I; GlcUAT-I |
| **UniProt Entry Name** | B3GA3_HUMAN |
| **NCBI Protein Information** | galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 3; Sqv-8-like protein; UDP-GlcUA:Gal beta-1,3-Gal-R glucuronyltransferase; beta-1,3-glucuronyltransferase 3 (glucuronosyltransferase I) |

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| **UniProt Comments for B3GAT3** | B3GAT3: Glycosaminoglycans biosynthesis. Involved in forming the linkage tetrasaccharide present in heparan sulfate and chondroitin sulfate. Transfers a glucuronic acid moiety from the uridine diphosphate-glucuronic acid (UDP-GlcUA) to the common linkage region trisaccharide Gal-beta-1,3-Gal-beta-1,4-Xyl covalently bound to a Ser residue at the glycosaminylglycan attachment site of proteoglycans. Can also play a role in the biosynthesis of l2/HNK-1 carbohydrate epitope on glycoproteins. Shows strict specificity for Gal-beta-1,3-Gal-beta-1,4-Xyl, exhibiting negligible incorporation into other galactoside substrates including Galbeta1-3Gal beta1-O-benzyl, Galbeta1-4GlcNAc and Galbeta1-4Glc. Defects in B3GAT3 are the cause of multiple joint dislocations short stature craniofacial dysmorphism and congenital heart defects (JDSSDHD). An autosomal recessive disease characterized by dysmorphic facies, bilateral dislocations of the elbows, hips, and knees, clubfeet, and short stature, as well as cardiovascular defects. Belongs to the glycosyltransferase 43 family.<br><br>Protein type: Glycan Metabolism - heparan sulfate biosynthesis; Transferase; EC 2.4.1.135; Membrane protein, integral; Glycan Metabolism - chondroitin sulfate biosynthesis<br><br>Chromosomal Location of Human Ortholog: 11q12.3<br><br>Cellular Component: Golgi membrane; Golgi apparatus; cis-Golgi network; membrane; integral to membrane<br><br>Molecular Function: protein binding; glucuronosyltransferase activity; metal ion binding; galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase activity<br><br>Biological Process: chondroitin sulfate metabolic process; positive regulation of catalytic activity; glycosaminoglycan biosynthetic process; glycosaminoglycan metabolic process; heparan sulfate proteoglycan biosynthetic process; chondroitin sulfate proteoglycan biosynthetic process; carbohydrate metabolic process; protein amino acid glycosylation; pathogenesis; dermatan sulfate proteoglycan biosynthetic process<br><br>Disease: Multiple Joint Dislocations, Short Stature, Craniofacial Dysmorphism, And Congenital Heart Defects |
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