

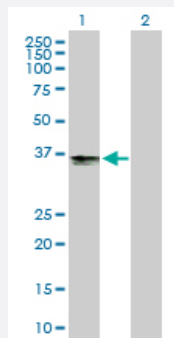
MaxPab®

B3GAT3 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00026229-B01P

Size 50 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of B3GAT3 expression in transfected 293T cell line ([H00026229-T01](#)) by B3GAT3 MaxPab polyclonal antibody.

Lane 1: B3GAT3 transfected lysate(36.85 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description	Mouse polyclonal antibody raised against a full-length human B3GAT3 protein.
Immunogen	B3GAT3 (NP_036332.2, 1 a.a. ~ 335 a.a) full-length human protein.
Sequence	MKLKLKNVFLAYFLVSIAGLLYALVQLGQPCDCLPPLRAAAEQLRQKDLRISQLQAELRRPPPAPAPQPEPEALPTIYVVTPTYARLVQKAELVRLSQTLSLVPRLHWLLVEDAEGPTPLVSGLLAASGLLFTHLVVLTPKAQRLREGEPGWVHPRGVEQRNKALDWLRGRGGAVGGEKDP PPPGTQG VVYFADDDNTYSRELFEEMRWTRGVS VWPVGLVGGLRFEGPQVQDGRVVG FHTAWEPSRPF PVDMAGFAVALPLLLDKPNAQFDSTAPRGHLESSLLSHLVDPKDLEPRAANCTRVLVWHTRTEKPKMKQE EQLQRQGRGSDPAIEV
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (95); Rat (95)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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[Protocol Download](#)

Gene Info — B3GAT3

Entrez GeneID [26229](#)

GeneBank Accession# [NM_012200.2](#)

Protein Accession# [NP_036332.2](#)

Gene Name B3GAT3

Gene Alias GLCATI, GlcAT-I

Gene Description beta-1,3-glucuronyltransferase 3 (glucuronosyltransferase I)

Omim ID [606374](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene is a member of the glucuronyltransferase gene family, enzymes that exhibit strict acceptor specificity, recognizing nonreducing terminal sugars and their anomeric linkages. This gene product catalyzes the formation of the glycosaminoglycan-protein linkage by way of a glucuronyl transfer reaction in the final step of the biosynthesis of the linkage region of proteoglycans. [provided by RefSeq]

Other Designations Sqv-8-like protein|beta-1,3-glucuronyltransferase 3|galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase|glucuronosyltransferase I

Publication Reference

- [Functional validation of novel compound heterozygous variants in B3GAT3 resulting in severe osteopenia and fractures: expanding the disease phenotype.](#)

Job F, Mizumoto S, Smith L, Couser N, Brazil A, Saal H, Patterson M, Gibson MI, Soden S, Miller N, Thiffault I, Saunders C, Yamada S, Hoffmann K, Sugahara K, Farrow E.

BMC Medical Genetics 2016 Nov; 17(1):86.

Application: WB, Human, Primary fibroblasts from the patient

- [Skeletal dysplasia in a consanguineous clan from the island of Nias/Indonesia is caused by a novel mutation in B3GAT3.](#)

Budde BS, Mizumoto S, Kogawa R, Becker C, Altmüller J, Thiele H, Ruschendorf F, Toliat MR, Kaleschke G, Hammerle JM, Hohne W, Sugahara K, Nürnberg P, Kennerknecht I.

Human Genetics 2015 Jul; 134(7):691.

Application: IF, Human, Lymphoblastoid cells

- [Faulty Initiation of Proteoglycan Synthesis Causes Cardiac and Joint Defects.](#)

Baasanjav S, Al-Gazali L, Hashiguchi T, Mizumoto S, Fischer B, Horn D, Seelow D, Ali BR, Aziz SA, Langer R, Saleh AA, Becker C, Nürnberg G, Cantagrel V, Gleeson JG, Gomez D, Michel JB, Stricker S, Lindner TH, Nürnberg P, Sugahara K, Mundlos S, Hoffmann K.

American Journal of Human Genetics 2011 Jul; 89(1):15.

Application: WB-Ti, Human, Aortic

- [Activation of TonEBP by calcium controls \$\beta\$ 1,3-glucuronosyltransferase-I expression, a key regulator of glycosaminoglycan synthesis in cells of the intervertebral disc.](#)

Hiyama A, Gajghate S, Sakai D, Mochida J, Shapiro IM, Risbud MV.

The Journal of Biological Chemistry 2009 Jan; 284(15):9824.

Pathway

- [Chondroitin sulfate biosynthesis](#)
- [Heparan sulfate biosynthesis](#)
- [Metabolic pathways](#)