

**CD57 / B3GAT1 Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3927a**

**Specification**

**CD57 / B3GAT1 Antibody (internal region) - Product Information**

|                      |                                                                                                                            |
|----------------------|----------------------------------------------------------------------------------------------------------------------------|
| Application          | WB                                                                                                                         |
| Primary Accession    | <a href="#">Q9P2W7</a>                                                                                                     |
| Other Accession      | <a href="#">NP_061114.2</a> ,<br><a href="#">27087</a> , <a href="#">76898</a><br>(mouse), <a href="#">117108</a><br>(rat) |
| Reactivity Predicted | Human<br>Mouse, Rat, Pig,<br>Dog                                                                                           |
| Host                 | Goat                                                                                                                       |
| Clonality            | Polyclonal                                                                                                                 |
| Concentration        | 0.5 mg/ml                                                                                                                  |
| Isotype              | IgG                                                                                                                        |
| Calculated MW        | 38256                                                                                                                      |

**CD57 / B3GAT1 Antibody (internal region) - Additional Information**

**Gene ID** 27087

**Other Names**

Galactosylgalactosylxylosylprotein  
3-beta-glucuronosyltransferase 1,  
2.4.1.135, Beta-1, 3-glucuronyltransferase  
1, Glucuronosyltransferase P, GlcAT-P,  
UDP-GlcUA:glycoprotein beta-1,  
3-glucuronyltransferase, GlcUAT-P, B3GAT1,  
GLCATP

**Format**

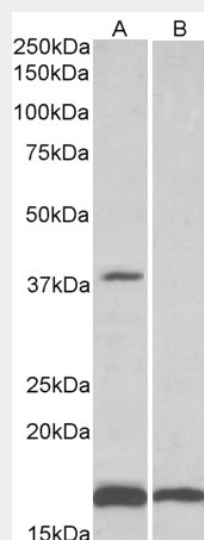
0.5 mg/ml in Tris saline, 0.02% sodium  
azide, pH7.3 with 0.5% bovine serum  
albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6  
months. For long term storage store at  
-20°C in small aliquots to prevent  
freeze-thaw cycles.

**Precautions**

CD57 / B3GAT1 Antibody (internal region) is  
for research use only and not for use in



AF3927a (0.1 µg/ml) staining of Human  
Frontal Cortex lysate (35 µg protein in RIPA  
buffer) with (B) and without (A) blocking with  
the immunizing peptide. Primary incubation  
was 1 hour. Detected by chemiluminescence.

**CD57 / B3GAT1 Antibody (internal region) - Background**

Reported variants represent identical protein:  
NP\_473366.1, NP\_061114.2.

**CD57 / B3GAT1 Antibody (internal region) - References**

Candidate gene analysis of the human natural  
killer-1 carbohydrate pathway and  
perineuronal nets in schizophrenia: B3GAT2 is  
associated with disease risk and cortical  
surface area. Kähler AK, Djurovic S, Rimol LM,  
Brown AA, Athanasiu L, Jönsson EG, Hansen T,  
Gústafsson O, Hall H, Giegling I, Muglia P,  
Cichon S, Rietschel M, Pietiläinen OP, Peltonen  
L, Bramon E, Collier D, St Clair D, Sigurdsson E,  
Petursson H, Rujescu D, Melle I, W Biol  
Psychiatry. 2011 Jan 1;69(1):90-6. PMID:  
20950796

diagnostic or therapeutic procedures.

**CD57 / B3GAT1 Antibody (internal region) -  
Protein Information**

**Name** B3GAT1 ([HGNC:921](#))

**Synonyms** GLCATP

**Function**

Involved in the biosynthesis of L2/HNK-1 carbohydrate epitope on glycoproteins. Can also play a role in glycosaminoglycan biosynthesis. Substrates include asialo-orosomucoid (ASOR), asialo-fetuin, and asialo-neural cell adhesion molecule. Requires sphingomyelin for activity: stearyl-sphingomyelin was the most effective, followed by palmitoyl-sphingomyelin and lignoceroyl-sphingomyelin. Activity was demonstrated only for sphingomyelin with a saturated fatty acid and not for that with an unsaturated fatty acid, regardless of the length of the acyl group.

**Cellular Location**

[Isoform 1]: Golgi apparatus membrane {ECO:0000250|UniProtKB:O35789};  
Single-pass type II membrane protein {ECO:0000250|UniProtKB:O35789}.  
Secreted  
{ECO:0000250|UniProtKB:O35789}

**Tissue Location**

Mainly expressed in the brain.

**CD57 / B3GAT1 Antibody (internal region)  
- Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)