

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

Specification

CD57 / B3GAT1 Antibody (internal region) - Product Information

Application	WB
Primary Accession	Q9P2W7
Other Accession	NP_061114.2 , 27087 , 76898 (mouse) , 117108 (rat)
Reactivity	Human
Predicted	Mouse, Rat, Pig, 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 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-orosomuroid (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

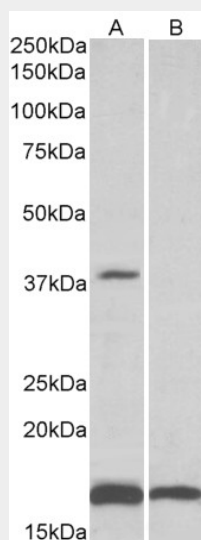
Mainly expressed in the brain.

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](#)

CD57 / B3GAT1 Antibody (internal region) - Images



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