10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CD57 / B3GAT1 (Natural Killer Cell Marker) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone HNK-1 + NK-1]
Catalog # AH11308

Specification

CD57 / B3GAT1 (Natural Killer Cell Marker) Antibody - With BSA and Azide - Product Information

Application	**IHC, IF**
Primary Accession	Q9P2W7
Other Accession	27087, 381050
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse / IgM's**
Calculated MW	**~110kDa KDa**

CD57 / B3GAT1 (Natural Killer Cell Marker) Antibody - With BSA and Azide - 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

Application Note
IHC~~1:100~500<br \>IF~~1:50~200

Storage
Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions
CD57 / B3GAT1 (Natural Killer Cell Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

CD57 / B3GAT1 (Natural Killer Cell Marker) Antibody - With BSA and Azide - 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:

stearoyl-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}

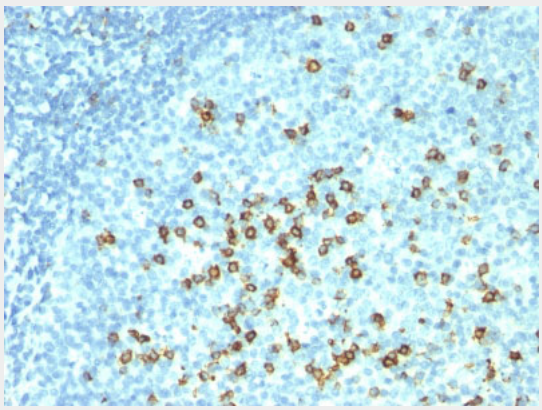
Tissue Location
Mainly expressed in the brain.

CD57 / B3GAT1 (Natural Killer Cell Marker) Antibody - With BSA and Azide - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CD57 / B3GAT1 (Natural Killer Cell Marker) Antibody - With BSA and Azide - Images



Formalin-fixed, paraffin-embedded human Tonsil stained with CD57 Monoclonal Antibody (HNK-1 + NK-1).

CD57 / B3GAT1 (Natural Killer Cell Marker) Antibody - With BSA and Azide - Background

Anti-CD57 marks a subset of lymphocytes known as natural killer (NK) cells. Follicular center cell lymphomas often contain many NK cells within the neoplastic follicles. Anti-CD57 also stains neuroendocrine cells and their derived tumors, including carcinoid tumor and medulloblastoma. Anti-CD57 can also be useful in separating type B3 thymoma from thymic carcinoma when combined with a panel that includes antibodies against GLUT1, CD5, and CEA.

CD57 / B3GAT1 (Natural Killer Cell Marker) Antibody - With BSA and Azide - References

Abo T et. al. J Immunol, 1982, 129(4):1758-61. | Abo T et al. J Immunology, 1982, 129:1752-7