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 or Leu-7 ]
Catalog # AH11296

## Product Information

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| **Application** | IHC, IF |
| **Primary Accession** | Q9P2W7 |
| **Other Accession** | 27087, 381050 |
| **Reactivity** | Human |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype** | Mouse / IgM, kappa |
| **Clone Names** | HNK-1 or Leu-7 |
| **Calculated MW** | 38256 |

## Additional Information

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| **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 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. |

## Protein Information

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| **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. |

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| **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. |

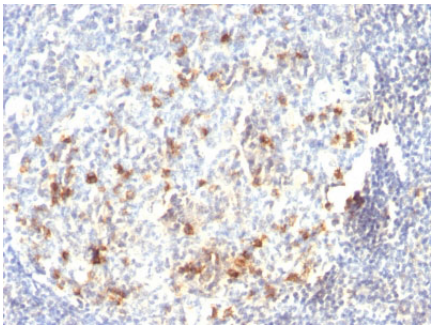
## Background

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.

## References

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

## Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.