B3GAT1 monoclonal antibody, clone NK-1 (PE)

Catalog # MAB6074 Size 100 Reactions

Specification

Product Description	Mouse monoclonal antibody raised against native B3GAT1.
Immunogen	Native purified from human peripheral blood mononuclear cells.
Host	Mouse
Reactivity	Human
Specificity	Specificity human CD57
Form	Liquid
Conjugation	PE
Isotype	IgM
Recommend Usage	Flow Cytometry (10 ul/10^6 cells) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Frozen sections)
- Flow Cytometry

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Gene Info — B3GAT1

Entrez GeneID	27087
Gene Name	B3GAT1
Gene Alias	CD57, GLCATP, GlcAT-P, GlcUAT-P, HNK-1, HNK1, LEU7, NK-1
Gene Description	beta-1,3-glucuronyltransferase 1 (glucuronosyltransferase P)
Omim ID	151290
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the glucuronyltransferase gene family. These enzymes exhibit strict acceptor specificity, recognizing nonreducing terminal sugars and their anomeric linkages. This gene product functions as the key enzyme in a glucuronyl transfer reaction during the biosynthesis of the carbohydrate epitope HNK-1 (human natural killer-1, also known as CD57 and LEU7). Alternate transcriptional splice variants have been characterized. [provided by RefSeq
Other Designations	CD57 antigen|LEU7 antigen|UDP-GlcUA:glycoprotein beta-1,3-glucuronyltransferase|beta-1,3-glucuronyltransferase 1|galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 1|glucuronosyltransferase P

Publication Reference

- CD57+ T lymphocytes are derived from CD57- precursors by differentiation occurring in late immune responses.

  d'Angeac AD, Monier S, Pilling D, Travaglio-Encinoza A, Reme T, Salmon M.

  European Journal of Immunology 1994 Jul; 24(7):1503.

  Application: Flow Cyt, Human, PBMCs

- Characterization of HNK-1+ (Leu-7) human lymphocytes. I. Two distinct phenotypes of human NK cells with different cytotoxic capability.

  Abo T, Cooper MD, Balch CM.

  Journal of Immunology 1982 Oct; 129(4):1752.

- A differentiation antigen of human NK and K cells identified by a monoclonal antibody (HNK-1).

  Abo T, Balch CM.

  Journal of Immunology 1981 Sep; 127(3):1024.

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Pathway

- Chondroitin sulfate biosynthesis
- Heparan sulfate biosynthesis
- Metabolic pathways

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