

## B3GAT1 monoclonal antibody, clone NK-1 (FITC)

Catalog # MAB6072

Size 100 Reactions

### Specification

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

### Applications

- Immunohistochemistry (Frozen sections)
- Flow Cytometry

## 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 CD 57 and LEU7). Alternate transcriptional splice variants have been characterized. [provided by Ref Seq]

**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.

Application: IF, Human, Human mononuclear cells

- [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.

Application: Flow Cyt, Func, IF, Human, Human cultured T cell lines HSB-2 and MOLT4, PBMCs

## Pathway

- [Chondroitin sulfate biosynthesis](#)
- [Heparan sulfate biosynthesis](#)
- [Metabolic pathways](#)