ARG42321
anti-CD57 antibody [TB01] (APC)

Package: 50 tests
Store at: 4°C

Summary

Product Description	APC-conjugated Mouse Monoclonal antibody [TB01] recognizes CD57
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The mouse monoclonal antibody TB01 recognizes CD57, a carbohydrate extracellular antigen present mainly on NK cells, NK T cells, and in neural tissue.
Host	Mouse
Clonality	Monoclonal
Clone	TB01
Isotype	IgM
Target Name	CD57
Species	Human
Immunogen	A pool of neuroblastoma cell lines.
Conjugation	APC
Alternate Names	Glucuronosyltransferase P; CD57; LEU7; GlcAT-P; GLCATP; HNK1; GlcUAT-P; NK1; Beta-1,3-glucuronyltransferase 1; EC 2.4.1.135; Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 1; GLCUATP; UDP-GlcUA:glycoprotein beta-1,3-glucuronyltransferase; NK-1

Application Instructions

Application table

Application	Dilution
FACS	10 µl / 100 µl of whole blood or 10^6 cells

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

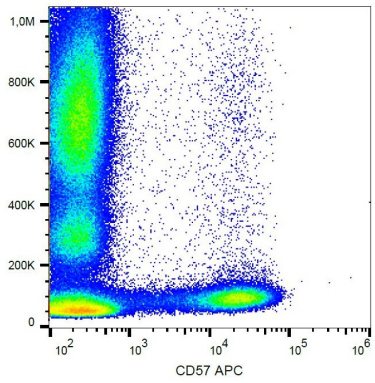
Properties

Form	Liquid
Purification	Purified
Buffer	PBS and 15 mM Sodium azide.
Preservative	15 mM Sodium azide
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	B3GAT1
Gene Full Name	beta-1,3-glucuronyltransferase 1
Background	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, Jul 2008]
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. [UniProt]
Calculated Mw	38 kDa
PTM	The soluble form derives from the membrane form by proteolytic processing. [UniProt]
Cellular Localization	Isoform 1: Golgi apparatus membrane; Single-pass type II membrane protein. Secreted. Isoform 2: Golgi apparatus membrane; Single-pass type II membrane protein. Endoplasmic reticulum membrane. Secreted. [UniProt]

Images



ARG42321 anti-CD57 antibody [TB01] (APC) FACS image

Flow Cytometry: Human peripheral blood stained with ARG42321 anti-CD57 antibody [TB01] (APC).