



Mouse Anti-Human CD57 monoclonal antibody, clone JID650 (CABT-L2966)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This antibody is intended for qualified laboratories to qualitatively identify by light microscopy the presence of associated antigens in sections of formalin-fixed, paraffin-embedded tissue sections using IHC test methods.
Specificity	Human CD57
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	JID650
Conjugate	Unconjugated
Applications	IHC
Reconstitution	The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining. The concentrated antibody requires dilution in the optimized buffer, to the recommended working dilution range.
Positive Control	Tonsil
Format	Liquid
Size	100 µl, 1 ml
Buffer	Predilute: Antibody Diluent Buffer Concentrate: Tris Buffer, pH 7.3 - 7.7, with 1% BSA

Preservative	< 0.1% Sodium Azide
Storage	Store at 2-8°C. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	Cluster of differentiation 57 (CD57), also known as NK-1, is an antigen detectable in natural killer cells, some T-lymphocytes and normal peripheral blood mononuclear cells, myeloid cells, and a variety of polypeptides, lipids, and chondroitin sulfate proteoglycans. CD57 is indicated as a marker for tumors of neuroendocrine origin, including pheochromocytomas, paragangliomas, carcinoid tumor, and medulloblastomas, as well as various neural tumors including neuromas, neurofibromas, schwannomas, and granular cell tumors. CD57 is also detectable in ganglioneuroma and prostate carcinoma. Anti-CD57 is used to distinguish nodular lymphocyte-predominant Hodgkin's lymphoma from T-cell/histiocyte-rich large B-cell lymphoma, nodular sclerosis Hodgkin's disease, and follicular lymphoma.
Keywords	B3GAT1;beta-1,3-glucuronyltransferase 1;NK1;CD57;HNK1;LEU7;NK-1;GLCATP;GLCUATP;galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 1;glcUAT-P;LEU7 antigen;glucuronosyltransferase P;UDP-GlcUA:glycoprotein beta-1,3-glucuronyltransferase;

GENE INFORMATION

Gene Name	B3GAT1 beta-1,3-glucuronyltransferase 1 [Homo sapiens (human)]
Official Symbol	B3GAT1
Synonyms	B3GAT1; beta-1,3-glucuronyltransferase 1; NK1; CD57; HNK1; LEU7; NK-1; GLCATP; GLCUATP; galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 1; glcUAT-P; LEU7 antigen; glucuronosyltransferase P; UDP-GlcUA:glycoprotein beta-1,3-glucuronyltransferase;
Entrez Gene ID	27087
Protein Refseq	NP_061114
UniProt ID	Q9P2W7
Chromosome Location	11q25
Pathway	A tetrasaccharide linker sequence is required for GAG synthesis; Chondroitin sulfate/dermatan sulfate metabolism; Defective B3GAT3 causes JDSSDHD; Defective B4GALT1 causes

B4GALT1-CDG (CDG-2d); Defective B4GALT7 causes EDS, progeroid type; Defective CHST14 causes EDS, musculocontractural type; Defective CHST3 causes SEDCJD; Defective CHST6 causes MCDC1;

Function

UDP-galactose:beta-N-acetylglucosamine beta-1,3-galactosyltransferase activity;
galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase activity; metal ion binding;
