Datasheet for ABIN7232911

anti-CD57 antibody

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Overview

Quantity:	100 µL
Target:	CD57 (B3GAT1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD57 antibody is un-conjugated
Application:	Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-CD57 Mouse Monoclonal Antibody
Immunogen:	Recombinant human CD57.
Clone:	G539-1
Isotype:	IgG1
Specificity:	Human CD57. Reactivity with other species has not been investigated.
Cross-Reactivity:	Human

Target Details

Target:	CD57 (B3GAT1)
Alternative Name:	B3GAT1 (B3GAT1 Products)
Background:	Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 1,Involved in the

Target Details

	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. {UniProtKB:O35789}.,It was originally believed that CD57 (cluster of differentiation 57) was uniquely expressed on natural killer (NK) cells, but further research showed that CD57 was expressed only on a subset of functionally distinct NK cells. CD57 was subsequently identified on CD8+ T cells as well as on cells of neural crest origin. In neural cells, the CD57 epitope is predominantly restricted to adhesion molecules. CD57 has been utilized as a marker for tumors of neuroendocrine origin including pheochromocytomas, paragangliomas, carcinoid tumors, medulloblastomas, neuromas, neurofibromas, schwannomas, and granular cell tumors. Expression of CD57 can be 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.,[Isoform 1]: Golgi apparatus membrane, Secreted, Endoplasmic reticulum membrane, Secreted,EC 2.4.1.135, Beta-1,3-glucuronyltransferase 1, Glucuronosyltransferase P, GlcAT-P, UDP-GlcUA:glycoprotein beta-1,3-glucuronyltransferase, GlcUAT-P
UniProt:	Q9P2W7
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	Immunohistochemistry: use at a dilution of 1:100-1:200 on formalin-fixed, paraffin-embedded samples after heat-induced epitope retrieval at pH 9 for 10-30 minutes.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Reconstitution:	Dilute in PBS or medium that is identical to that used in the assay system.
Concentration:	Lot specific
Buffer:	Tris buffer, pH 7.3-7.7, 1 % BSA, 0.1 % sodium azide

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.