

Product datasheet for **TA336743**

CD57 (B3GAT1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC
Recommended Dilution:	Immunohistochemistry: 1:100, Immunocytochemistry/ Immunofluorescence: 1:100, Immunohistochemistry-Paraffin: 1:400
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to an N-terminal portion of the human CD57 protein (between residues 1-50) [UniProt Q9P2W7]
Formulation:	PBS with 30% Glycerol, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	beta-1,3-glucuronyltransferase 1
Database Link:	NP_473366 Entrez Gene 76898 Mouse Entrez Gene 117108 Rat Entrez Gene 27087 Human Q9P2W7



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Background: CD57 (also known as beta-1,3-glucuronyltransferase 1, Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 1, Glucuronosyltransferase P, Human Natural Killer 1, B3GAT1, NK1, HNK1, LEU7, NK-1, GLCUATP, and GLCATP) is a member of the glucuronyltransferase gene family. The enzymes produced by the members of this family recognize non-reducing terminal sugars and their anomeric linkages by exhibiting strong acceptor specificity. CD57 is also involved in the biosynthesis of glycosaminoglycan and L2/HNK-1 carbohydrate epitopes on glycoproteins. CD57 is expressed mainly in the brain and several alternate transcriptional splice variants have been characterized. In cancer research, CD57 positive lymphocytes have been used successfully in monitoring the progression of various cancers (PMID: 21491089). HNK1 is also involved in synaptic plasticity and neurodevelopment (PMID: 20950796).

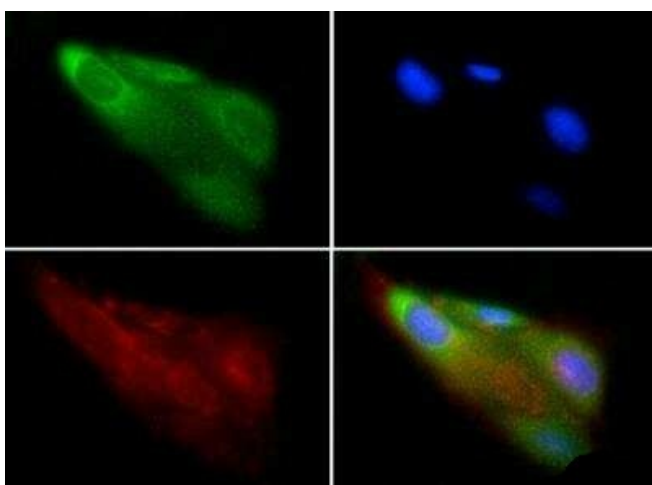
Synonyms: CD57; GLCATP; GLCUATP; HNK1; LEU7; NK-1; NK1

Note: Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.

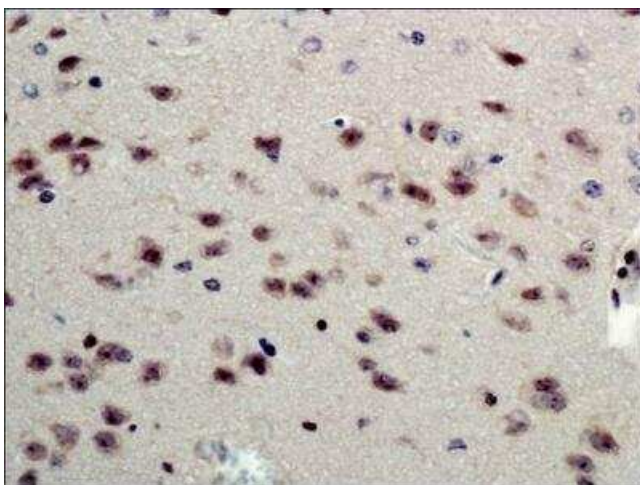
Protein Families: Transmembrane

Protein Pathways: Chondroitin sulfate biosynthesis, Heparan sulfate biosynthesis, Metabolic pathways

Product images:



Immunocytochemistry/Immunofluorescence:
beta-1,3-Glucuronyltransferase 1/B3GAT1
Antibody TA336743 - Antibody was tested in
U2OS cells with FITC (green). Nuclei and alpha-
tubulin were counterstained with DAPI (blue) and
Dylight 550 (red).



Immunohistochemistry: beta-1,3-Glucuronyltransferase 1/B3GAT1 Antibody TA336743 - Analysis in mouse brain using DAB with hematoxylin counterstain.