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Anti-CD75 Antibody

Catalog # AP51539

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P15907
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46605

Additional Information

Gene ID	6480
Other Names	SIAT1; Beta-galactoside alpha-2, 6-sialyltransferase 1; Alpha 2, 6-ST 1; B-cell antigen CD75; CMP-N-acetylneuraminate-beta-galactosamide-alpha-2, 6-sialyltransferase 1; ST6Gal I; ST6GalI; Sialyltransferase 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CD75. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

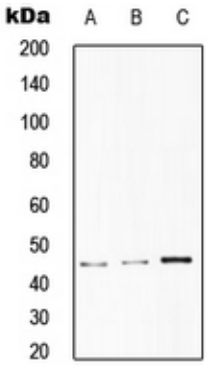
Name	ST6GAL1
Synonyms	SIAT1
Function	Transfers sialic acid from CMP-sialic acid to galactose- containing acceptor substrates. In B lymphocytes, generates neuraminidase-sensitive lymphocyte cell-surface differentiation antigens, such as CDw75, HB-6 and CD76 (PubMed:1730763). Sialylates complex-type N-glycans attached on the fragment crystallizable (Fc) of IgGs conferring anti-inflammatory effector functions. Preferentially monosialylates the alpha(1->3) mannose antenna of Fc glycoforms with subsequent disialylation occurring at a much slower rate.
Cellular Location	Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein. Secreted {ECO:0000250|UniProtKB:P13721}. Note=Membrane-bound form in trans cisternae of Golgi (PubMed:20378551). Secreted into the body fluid (By similarity). Colocalizes with MGAT3 and B4GALT1 in the Golgi

stacks of cisternae, including the cis-part of the Golgi stacks. {ECO:0000250|UniProtKB:P13721, ECO:0000269|PubMed:20378551, ECO:0000269|PubMed:29133956}

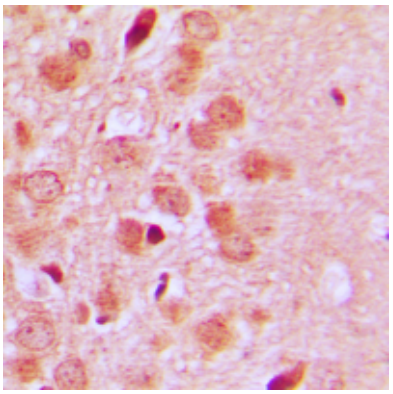
References

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Stamenkovic I.,et al.J. Exp. Med. 172:641-643(1990).
Bast B.J.E.G.,et al.J. Cell Biol. 116:423-435(1992).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

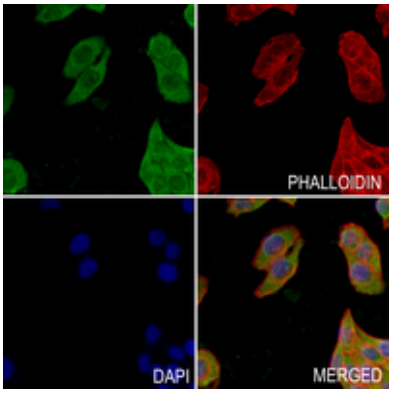
Images



Western blot analysis of CD75 expression in HepG2 (A), HeLa (B), RAW264.7 (C) whole cell lysates. (Predicted band size: 46 kD; Observed band size: 46 kD)



Immunohistochemical analysis of CD75 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of CD75 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.