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ST3GAL5 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5834b

Product Information

Application	IHC-P, FC, WB, E
Primary Accession	Q9UNP4
Other Accession	NP_003887.3, NP_001035902.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB20256
Calculated MW	47990
Antigen Region	389-418

Additional Information

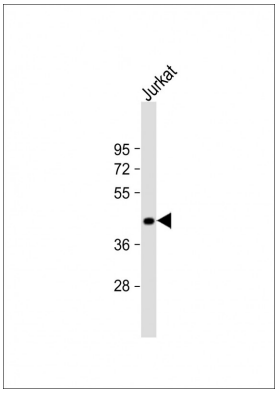
Gene ID	8869
Other Names	Lactosylceramide alpha-2, 3-sialyltransferase, CMP-NeuAc:lactosylceramide alpha-2, 3-sialyltransferase, Ganglioside GM3 synthase, ST3Gal V, ST3GalV, Sialyltransferase 9, ST3GAL5, SIAT9
Target/Specificity	This ST3GAL5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 389-418 amino acids of human ST3GAL5.
Dilution	IHC-P~~1:100~500 FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ST3GAL5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

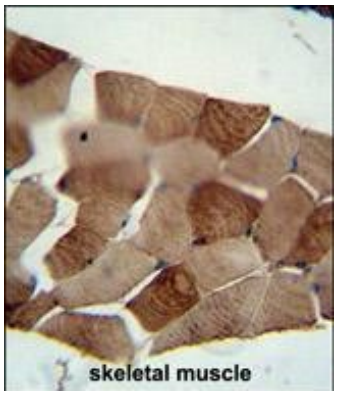
Name	ST3GAL5
Synonyms	SIAT9

Function	Transfers the sialyl group (N-acetyl-alpha-neuraminyl or NeuAc) from CMP-NeuAc to the non-reducing terminal galactose (Gal) of glycosphingolipids forming gangliosides (important molecules involved in the regulation of multiple cellular processes, including cell proliferation and differentiation, apoptosis, embryogenesis, development, and oncogenesis) (PubMed:16934889, PubMed:9822625). Mainly involved in the biosynthesis of ganglioside GM3 but can also use different glycolipids as substrate acceptors such as D- galactosylceramide (GalCer), asialo-GM2 (GA2) and asialo-GM1 (GA1), although less preferentially than beta-D-Gal-(1->4)-beta-D-Glc-(11)- Cer (LacCer) (PubMed:16934889).
Cellular Location	Golgi apparatus membrane; Single- pass type II membrane protein
Tissue Location	Ubiquitous. High expression in brain, skeletal muscle, placenta, and testis. mRNA widely distributed in human brain, but slightly elevated expression was observed in the cerebral cortex, temporal lobe, and putamen.

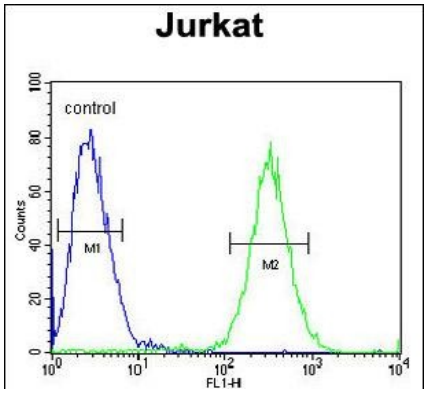
Images



Anti-ST3GAL5 Antibody (C-term) at 1:1000 dilution + Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 48 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



ST3GAL5 antibody (C-term) (Cat. #AP5834b) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ST3GAL5 antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



ST3GAL5 Antibody (C-term) (Cat. #AP5834b) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- TWIST1-Induced miR-424 Reversibly Drives Mesenchymal Programming while Inhibiting Tumor Initiation.