



Anti-ST3GAL1 (aa 1-165) polyclonal antibody (CPBT-45620RH)

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

PRODUCT INFORMATION

Product Overview	Rabbit Polyclonal antibody to Human ST3GAL1.
Antigen Description	The protein encoded by this gene is a type II membrane protein that catalyzes the transfer of sialic acid from CMP-sialic acid to galactose-containing substrates. The encoded protein is normally found in the Golgi but can be proteolytically processed to a soluble form. Correct glycosylation of the encoded protein may be critical to its sialyltransferase activity. This protein, which is a member of glycosyltransferase family 29, can use the same acceptor substrates as does sialyltransferase 4B. Two transcript variants encoding the same protein have been found for this gene. Other transcript variants may exist, but have not been fully characterized yet.
Specificity	Expressed in several tissues. Highest expression in lung, liver, skeletal muscle, kidney, pancreas, spleen and placenta.
Immunogen	Recombinant fragment, corresponding to a region within amino acids 1-165 of Human SIAT4A.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	WB, IHC-P
Sequence Similarities	Belongs to the glycosyltransferase 29 family.
Cellular Localization	Golgi apparatus # Golgi stack membrane. Secreted. Membrane-bound form in trans cisternae of Golgi. Secreted into the body fluid.

Format	Liquid
Size	50 µl
Buffer	Preservative: 0.01% Thimerosal (merthiolate)Constituents: 10% Glycerol, 0.1M Tris, 0.1M Glycine, pH 7.0
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	ST3GAL1 ST3 beta-galactoside alpha-2,3-sialyltransferase 1 [Homo sapiens]
Official Symbol	ST3GAL1
Synonyms	ST3GAL1; ST3 beta-galactoside alpha-2,3-sialyltransferase 1; sialyltransferase 4A (beta galactosidase alpha 2,3 sialyltransferase) , SIAT4A; CMP-N-acetylneuraminate-beta-galactosamide-alpha-2,3-sialyltransferase 1; SIATFL; ST3Gal I; ST3GalA.1; ST3O; 3-GalNAc-alpha-2; 3-sialyltransferase 1; 3-sialyltransferase; 3-ST 1; Alpha 2; Alpha 23 ST; Beta galactoside alpha 23 sialyltransferase; Beta-galactoside alpha-2; beta-galactoside alpha-2,3-sialyltransferase 1; CMP N acetylneuraminate beta galactosamide alpha 23 sialyltransferase; CMP-N-acetylneuraminate-beta-galactosamide-alpha-2; DKFZp666E036; DKFZp779K2051; FLJ36548; Gal beta 13 GalNAc alpha 23 sialyltransferase; Gal NAc6S; Gal-beta-1; Gal-NAc6S; MGC9183; OTTHUMP00000226912; OTTHUMP00000226913; SIA4A_HUMAN; Sialyltransferase 4A; SIAT4-A; SIAT4A; SIATFL; ST3Gal I; ST3GAL1; ST3GalA; ST3GalA.1; ST3Gall; ST3GallA; ST3O; SIAT4-A; ST3Gall; alpha 2,3-ST 1; beta-galactoside alpha-2,3-sialyltransferase 1; Gal-beta-1,3-GalNAc-alpha-2,3-sialyltransferase; sialyltransferase 4A (beta-galactoside alpha-2,3-sialyltransferase); sialyltransferase 4A (beta-galactoside alpha-2,3-sialyltransferase); sialyltransferase 4A (beta-galactosidase alpha-2,3-sialyltransferase); SIAT4A; ST3GalA; ST3GallA; Gal-NAc6S; ST3GallA,1;
Entrez Gene ID	6482
Protein Refseq	NP_775479
UniProt ID	A0A024R9L6
Chromosome Location	8q24.22
Pathway	Glycosaminoglycan biosynthesis - keratan sulfate, organism-specific biosystem; Glycosaminoglycan biosynthesis - keratan sulfate, conserved biosystem; Glycosphingolipid biosynthesis - ganglio series, organism-specific biosystem; Glycosphingolipid biosynthesis - ganglio series, conserved biosystem; Glycosphingolipid biosynthesis - globo series, organism-

specific biosystem; Glycosphingolipid biosynthesis - globo series, conserved biosystem;
Metabolic pathways, organism-specific biosystem; Mucin typ

Function

beta-galactoside (CMP) alpha-2,3-sialyltransferase activity;
