

## ARG66984 anti-ST3GAL1 antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes ST3GAL1
Tested Reactivity	Hu, Ms
Predict Reactivity	Rat
Tested Application	IHC-Fr, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ST3GAL1
Species	Human
Immunogen	Synthetic peptide around the middle region of Human ST3GAL1.
Conjugation	Un-conjugated
Alternate Names	ST3O; SIAT4A; SIATFL; ST3GalA; ST3GalIA; Gal-NAc6S; ST3GalA.1; ST3GalIA,1; CMP-N-Acetylneuraminate-Beta-Galactosamide-Alpha-2,3-Sialyltransferase 1; Sialyltransferase 4A (Beta-Galactosidase Alpha-2,3-Sialyltransferase); Gal-Beta-1,3-GalNAc-Alpha-2,3-Sialyltransferase; Beta-Galactoside Alpha-2,3-Sialyltransferase 1; Monosialoganglioside Sialyltransferase; Alpha 2,3-ST 1

### Application Instructions

Application table	Application	Dilution
	IHC-Fr	1:200–1:600
	IHC-P	1:50 - 1:200
	WB	1:1000 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	45-50 kDa	

### Properties

Form	Liquid
Purification	Affinity purified.
Buffer	100 mM Tris Glycine (pH 7.0), 0.025% ProClin 300 and 20% Glycerol.
Preservative	0.025% ProClin 300
Stabilizer	20% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw

cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note**

For laboratory research only, not for drug, diagnostic or other use.

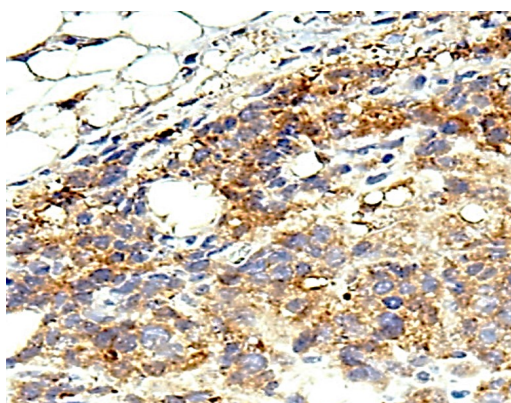
## Bioinformation

---

Gene Symbol	ST3GAL1
Gene Full Name	ST3 beta-galactoside alpha-2,3-sialyltransferase 1
Background	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. [provided by RefSeq, Jul 2008]
Function	A beta-galactoside alpha2-3 sialyltransferase involved in terminal sialylation of glycoproteins and glycolipids (PubMed:31784620, PubMed:8027041). Catalyzes the transfer of sialic acid (N-acetylneuraminic acid; Neu5Ac) from the nucleotide sugar donor CMP-Neu5Ac onto acceptor Galbeta-(1->3)-GalNAc-terminated glycoconjugates through an alpha2-3 linkage (PubMed:31784620, PubMed:8027041). Adds sialic acid to the core 1 O-glycan, Galbeta-(1->3)-GalNAc-O-Ser/Thr, which is a major structure of mucin-type O-glycans. As part of a homeostatic mechanism that regulates CD8-positive T cell numbers, sialylates core 1 O-glycans of T cell glycoproteins, SPN/CD43 and PTPRC/CD45. Prevents premature apoptosis of thymic CD8-positive T cells prior to peripheral emigration, whereas in the secondary lymphoid organs controls the survival of CD8-positive memory T cells generated following a successful immune response (By similarity). Transfers sialic acid to asialofetuin, presumably onto Galbeta-(1->3)-GalNAc-O-Ser (By similarity). Sialylates GM1a, GA1 and GD1b gangliosides to form GD1a, GM1b and GT1b, respectively (PubMed:8027041) (By similarity). [UniProt]
Calculated Mw	39 kDa
PTM	Disulfide bond; Glycoprotein
Cellular Localization	Golgi apparatus; Membrane; Secreted

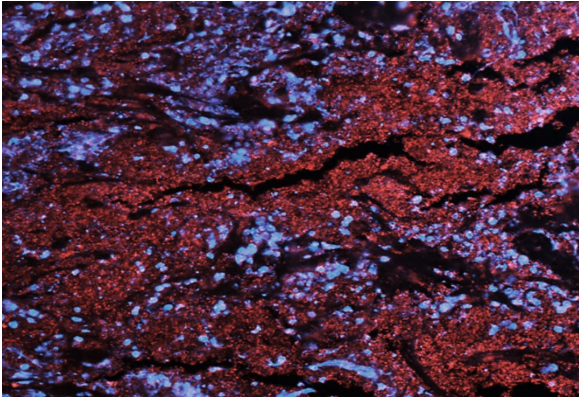
## Images

---



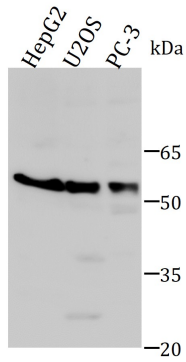
ARG66984 anti-ST3GAL1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver carcinoma tissue section stained with ARG66984 anti-ST3GAL1 antibody at 1:100 dilution.



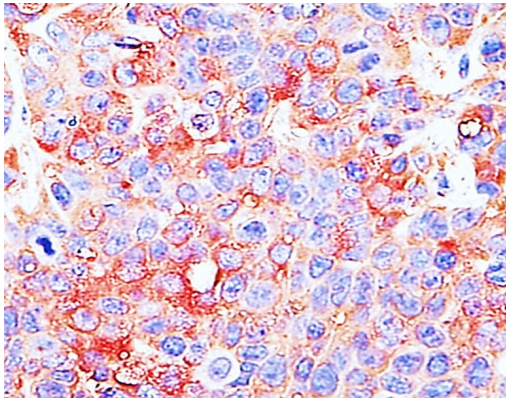
ARG66984 anti-ST3GAL1 antibody IHC-Fr image

Immunohistochemistry: Frozen Human cancer tissue stained with ARG66984 anti-ST3GAL1 antibody at 1:200 dilution.



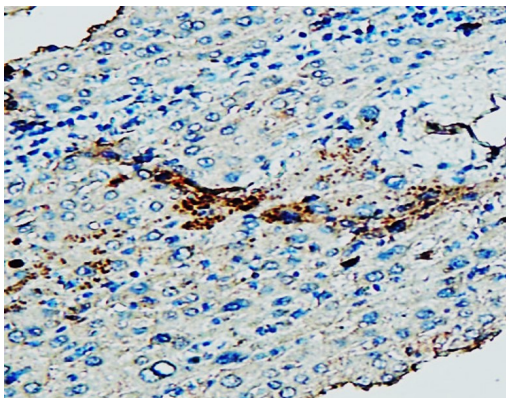
ARG66984 anti-ST3GAL1 antibody WB image

Western blot: HepG2, U2OS and PC-3 cells stained with ARG66984 anti-ST3GAL1 antibody at 1:1000 dilution.



ARG66984 anti-ST3GAL1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded human cancer tissue section stained with ARG66984 anti-ST3GAL1 antibody at 1:100 dilution.



ARG66984 anti-ST3GAL1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver carcinoma tissue section stained with ARG66984 anti-ST3GAL1 antibody at 1:100 dilution.