

ST3gal6 Antibody

Catalog # ASC10907

Specification

ST3gal6 Antibody - Product Information

Application
Primary Accession
Other Accession
Reactivity
Host
Clonality
Isotype

Application Notes

WB, ICC <u>Q9Y274</u>

NP_006091, 5174697 Human, Mouse, Rat

Rabbit Polyclonal

IgG

ST3gal6 antibody can be used for detection of ST3gal6 by Western blot at $1 - 2 \mu g/mL$.

Antibody can also be used for

immunocytochemistry starting at 5 μg/mL.

ST3gal6 Antibody - Additional Information

Gene ID **10402**

Target/Specificity ST3GAL6:

Reconstitution & Storage

ST3gal6 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions

ST3gal6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ST3gal6 Antibody - Protein Information

Name ST3GAL6

Synonyms SIAT10

Function

Involved in the synthesis of sialyl-paragloboside, a precursor of sialyl-Lewis X determinant. Has a alpha-2,3- sialyltransferase activity toward Gal-beta1,4-GlcNAc structure on glycoproteins and glycolipids. Has a restricted substrate specificity, it utilizes Gal-beta1,4-GlcNAc on glycoproteins, and neolactotetraosylceramide and neolactohexaosylceramide, but not lactotetraosylceramide, lactosylceramide or asialo-GM1.

Cellular Location

Golgi apparatus membrane; Single- pass type II membrane protein

Tissue Location



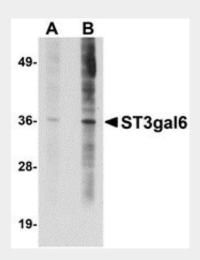
Ubiquitous.

ST3gal6 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

ST3gal6 Antibody - Images



Western blot analysis of ST3gal6 in HeLa cell lysate with ST3gal6 antibody at (A) 1 and (B) 2 $\mu g/mL$.



Immunocytochemistry of ST3gal6 in HeLa cells with ST3gal6 antibody at 5 μg/mL.

ST3gal6 Antibody - Background

ST3gal6 Antibody: Sialyltransferases catalyze the transfer of sialic acid from cytidine 5-prime monophospho-N-acetylneuraminic acid (CMP-NeuAc) to terminal positions of glycoprotein and glycolipid carbohydrate groups. Terminal NeuAc residues are key determinants of carbohydrate structures, such as the sialyl-Lewis X determinants, and are widely distributed in many cell types. However, cancer cells often express more heavily sialylated glycans on their cell surface and this feature sometimes correlates with invasiveness. In contrast, expression of ST3gal6, a member of





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the sialyltransferase family that sialylates type II lactosamine structures on glycoproteins and glycolipids, was found to be significantly decreased by hypermethylation of the gene in gastrointestinal cancer. At least three isoforms of ST3gal6 are known to exist.

ST3gal6 Antibody - References

Dall'Olio F and Chiricolo M. Sialyltransferases in cancer. Glycoconj. J.2001; 18:841-50. Okajima T, Fukumoto S, Miyazaki H, et al. Molecular cloning of a novel alpha2,3-sialyltransferase (ST3Gal VI) that sialylates type II lactosamine structures on glycoproteins and glycolipids. J. Biol. Chem.1999; 274:11479-86.

Kawamura YI, Toyota M, Kawashima R, et al. DNA hypermethylation contributes to incomplete synthesis of carbohydrate determinants in gastrointestinal cancer. Gasatroenterology2008; 135:142-51.