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Datasheet for 600-401-EV2

ST3gal6 Antibody

Overview

Description:	Anti-ST3gal6 (RABBIT) Antibody - 600-401-EV2
Item No.:	600-401-EV2
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	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 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.
Synonyms:	ST3gal6 Antibody, SIAT10, ST3GALVI, SIAT10, Type 2 lactosamine alpha-2, 3-sialyltransferase, ST3Gal VI, ST3GalVI
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ST3GAL6
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-ST3gal6 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide from near the C-terminus of human ST3gal6.
Purity/Specificity:	Anti-ST3gal6 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with ST3gal6 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9Y274 • GeneID - 10402 • NCBI - NP_001258074.1

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-ST3gal6 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 38 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
WB:	1-2 µg/mL

Formulation

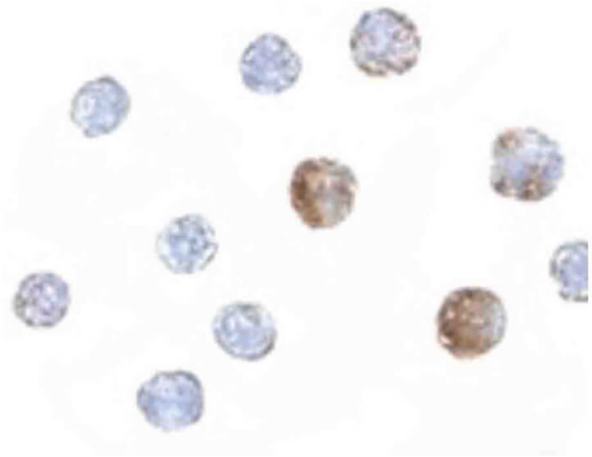
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

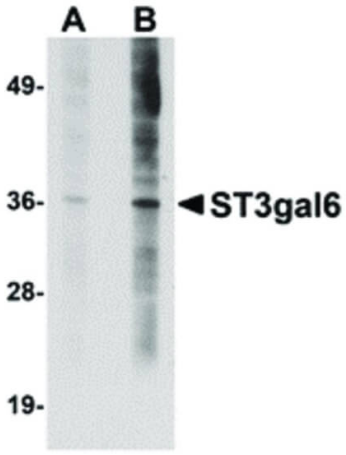
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry
Immunocytochemistry of ST3gal6 antibody. Tissue: HeLa cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: ST3gal6 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ST3gal6 is a membrane protein. Staining: ST3gal6 as precipitated blue signal with brown counterstain.



Western Blot
Western Blot of ST3gal6 antibody. Lane 1: HeLa cell lysate with ST3gal6 antibody at 1 µg/mL. Lane 2: HeLa cell lysate with ST3gal6 antibody at 2 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 38 kDa, 36 kDa for ST3gal6. Other band(s): ST3gal6 splice variants and isoforms.

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