### Overview

**Product name**  
Anti-Sialyl Tn antibody [STn 219]

**Description**  
Mouse monoclonal [STn 219] to Sialyl Tn

**Host species**  
Mouse

**Tested applications**  
Suitable for: Flow Cyt, IHC-P, IHC-Fr, ICC

**Species reactivity**  
Reacts with: Sheep, Human

**Immunogen**  
Ovine submaxillary mucin (OSM).

**Epitope**  
NeuAc a GalNacOSer/Thr.

**Positive control**  
Human gastrointestinal tumor, prostate and ovary carcinoma tissues.

**General notes**  
This product was changed from ascites to tissue culture supernatant on 15th June 2017. The following lots are from ascites and still in stock as of 15th June 2017 (GR271829-1, GR293422-1, GR247695-1, GR293422-2, GR293422-1). Lot numbers higher than GR293422-2 will be from tissue culture supernatant. Please note that the dilutions may need to be adjusted accordingly.

### Properties

**Form**  
Liquid

**Storage instructions**  
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.

**Storage buffer**  
pH: 7.40  
Preservative: 0.09% Sodium azide  
Constituents: 98% PBS, 1% BSA

**Purity**  
Tissue culture supernatant

**Clonality**  
Monoclonal

**Clone number**  
STn 219

**Isotype**  
IgG1

**Light chain type**  
kappa

### Applications

Our Abpromise guarantee covers the use of ab115957 in the following tested applications.
Relevance

Sialyl-Tn is a carbohydrate antigen overexpressed in several epithelial cancers including breast cancer, and usually associated with poor prognosis. Sialyl-Tn is synthesized by a CMP-Neu5Ac:GalNAc alpha2,6-sialyltransferase: ST6GalNAc I, which catalyzes the transfer of a sialic acid residue in alpha2,6-linkage to the GalNAc alpha1-O-Ser/Thr structure. The resulting disaccharide (Neu5Aca alpha2-6GalNAca alpha1-O-Ser/Thr) cannot be further elongated and sialyl-Tn expression results therefore in a shortening of the O-glycan chains.

Target

Overlay histogram showing MCF7 cells stained with ab115957 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab115957, 1µg/1x10^6 cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in MCF7 cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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