Product datasheet

Anti-Sialyl Tn antibody [STn 219] ab115957

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.
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 GalNAcalpha1-O-Ser/Thr structure. The resulting disaccharide (Neu5Acalpha2-6GalNAcalpha1-O-Ser/Thr) cannot be further elongated and sialyl-Tn expression results therefore in a shortening of the O-glycan chains.

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 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22ºC. 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.

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