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.
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 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.

Images

Overlay histogram showing MCF7 cells stained with ab115957 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabiliized 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.

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

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