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.

**Abreviews**

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
</table>
| Flow Cyt    |           | Use 1µg for 10^6 cells.  
ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody. |
| IHC-P       | 1/50 - 1/100. |
| IHC-Fr      | 1/50 - 1/100. |
| ICC         | Use at an assay dependent concentration.  
Use at an assay dependent concentration |

**Target**

**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 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 AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"
• Replacement or refund for products not performing as stated on the datasheet
• Valid for 12 months from date of delivery
• Response to your inquiry within 24 hours
• We provide support in Chinese, English, French, German, Japanese and Spanish
• Extensive multi-media technical resources to help you
• We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

• Guarantee only valid for products bought direct from Abcam or one of our authorized distributors