

Product datasheet

Anti-Sialyl Tn antibody [STn 219] ab115957

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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
Species reactivity	Reacts with: Sheep, Human
Immunogen	Full length native protein (purified). This information is proprietary to Abcam and/or its suppliers.
Epitope	NeuAc a GalNacOSer/Thr.
Positive control	Human gastrointestinal tumor, prostate and ovary carcinoma tissues.
General notes	<p>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.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

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

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab115957 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

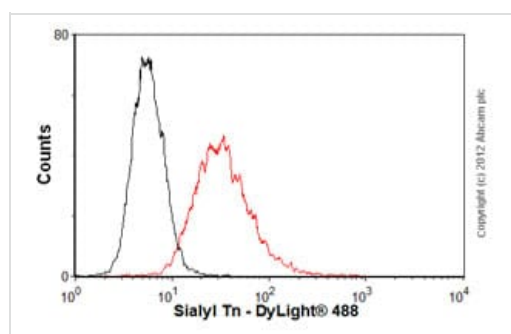
Application	Abreviews	Notes
Flow Cyt		Use 1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

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 GalNAc alpha1-O-Ser/Thr structure. The resulting disaccharide (Neu5Ac alpha2-6GalNAc alpha1-O-Ser/Thr) cannot be further elongated and sialyl-Tn expression results therefore in a shortening of the O-glycan chains

Images



Flow Cytometry - Anti-Sialyl Tn antibody [STn 219] (ab115957)

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/1x10⁶ 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/1x10⁶ 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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