

CD227 (Mucin 1) Monoclonal Antibody (SM3), Alexa Fluor™ 488, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Mouse / IgG1
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Alexa Fluor™ 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SM3
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 nm
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10597902

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	20 µg/mL	-
Flow Cytometry (Flow)	1 µg/mL	-

Product Specific Information

Description: This SM3 monoclonal antibody reacts with the under-glycosylated form of human Mucin 1 (MUC1, CD227), a large glycoprotein belonging to the mucin protein family. Mucin 1 contains a polypeptide core consisting of multiple tandem repeats that become highly glycosylated. Mucin 1 is typically expressed in ductal or glandular epithelial cells and is localized to the apical membrane. In cancerous cells, Mucin 1 expression is increased and membrane-specific localization is lost resulting in expression throughout the membrane and cytoplasm. High levels of under-glycosylated Mucin 1 are thought to affect cell behavior during both invasion and metastasis as well as in immune recognition. In addition, under-glycosylated Mucin 1 is shed from the epithelial cell surface and can be detected in circulation. Alterations in Mucin 1 glycosylation are found in most adenocarcinomas of the breast, lung, pancreas, prostate, and ovary. Mucin 1 has recently been shown to co-localize and interact with members of the erbB receptor kinase family, proteins that are upregulated in more aggressive forms of breast cancer.

Please note this antibody sees a distinct epitope from other Mucin 1 antibodies.

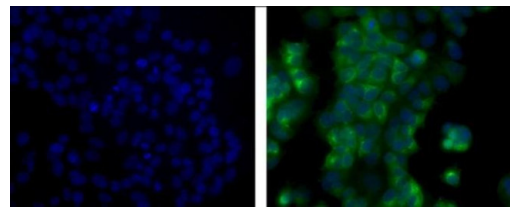
Applications Reported: This SM3 antibody has been reported for use in flow cytometric analysis and immunocytochemistry.

Applications Tested: This SM3 antibody has been tested by flow cytometry and can be used at less than or equal to 1 µg/mL. This SM3 antibody has also been tested by immunocytochemistry on methanol fixed MCF7 cells and can be used at less than or equal to 20 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488 nm; Emission: 519 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD227 (Mucin 1) Monoclonal Antibody (SM3), Alexa Fluor™ 488, eBioscience™



CD227 (Mucin 1) Antibody (53-9893-82) in ICC/IF
Immunocytochemistry of fixed MCF7 cells using 20 µg/mL of Mouse IgG1 Isotype Control Alexa Fluor® 488 (Product # 53-4714-80) (left) or Anti-Human CD227 (Mucin 1) Alexa Fluor® 488 (right). Nuclei are counterstained with DAPI.

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