Datasheet for ABIN6184102

anti-MUC1 antibody (CF®405S)

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Overview

Quantity:	100 µL
Target:	MUC1
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MUC1 antibody is conjugated to CF®405S
Application:	ELISA, Immunofluorescence (IF), Flow Cytometry (FACS), Immunohistochemistry (Formalin-fixed Sections) (IHC (f)), Coating (Coat)

Product Details

Purpose:	Mouse Monoclonal anti-Mucin 1 / EMA / Episialin / CD227 (139H2), CF405S Conjugate
Immunogen:	Human milk-fat globule membranes (HMFGM)
Clone:	139H2
Isotype:	IgG1 kappa
Characteristics:	This MAb reacts with MUC1. The dominant epitope of this MAb has not yet been determined. MUC1 is a large cell surface mucin glycoprotein expressed by most glandular and ductal epithelial cells and some hematopoietic cell lineages. It is expressed on most secretory epithelium, including mammary gland and some hematopoietic cells. It is expressed abundantly in lactating mammary glands and over expressed abundantly in >90 % breast carcinomas and metastases. Transgenic MUC1 has been shown to associate with all four c-erbB receptors and localize with c-erbB1 (EGFR) in lactating glands. The MUC1 gene contains seven exons and

Product Details

produces several different alternatively spliced variants. The major expressed form of MUC1 uses all seven exons and is a type 1 transmembrane protein with a large extracellular tandem repeat domain. The tandem repeat domain is highly O glycosylated and alterations in glycosylation have been shown in epithelial cancer cells. Antibody to EMA is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Target Details

Target:	MUC1
Alternative Name:	Mucin 1 / EMA / Episialin / CD227 (MUC1 Products)
Molecular Weight:	265-400 kDa
Gene ID:	4582, 89603
UniProt:	P15941
Pathways:	Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes:	Immunohistology formalin-fixed 0.5-1 µg/mL • Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes • Immunofluorescence 1-2 µg/mL • ELISA For coating use Ab at 2-5 µg/mL, order Ab without BSA • Flow Cytometry 0.25-0.5 µg/million cells in 0.1 mL • Optimal dilution for a specific application should be determined by user
Comment:	MCF-7 or MDA-231 cells. Breast, colon, ovarian, endometrial carcinoma.
Restrictions:	For Research Use only

Handling

Format:	Liquid

Handling

Concentration:	100 µg/mL
Buffer:	PBS/0.1 % BSA/0.05 % azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Protect from light