

## Datasheet for ABIN6184131 **anti-MUC1 antibody (Biotin)**



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### Overview

|              |                                                                                                                                 |
|--------------|---------------------------------------------------------------------------------------------------------------------------------|
| Quantity:    | 100 µL                                                                                                                          |
| Target:      | MUC1                                                                                                                            |
| Reactivity:  | Human, Mouse                                                                                                                    |
| Host:        | Mouse                                                                                                                           |
| Clonality:   | Monoclonal                                                                                                                      |
| Conjugate:   | This MUC1 antibody is conjugated to Biotin                                                                                      |
| 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), Biotin Conjugate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Immunogen:       | Human milk-fat globule membranes (HMFGM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Clone:           | 139H2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Isotype:         | IgG1 kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Characteristics: | <p>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 &gt;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</p> |

## 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 ( <a href="#">MUC1 Products</a> )  |
| Molecular Weight: | 265-400 kDa                                                          |
| Gene ID:          | 4582, 89603                                                          |
| UniProt:          | <a href="#">P15941</a>                                               |
| Pathways:         | <a href="#">Negative Regulation of intrinsic apoptotic Signaling</a> |

## Application Details

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|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | Immunohistology formalin-fixed 0.5-1 µg/mL <ul style="list-style-type: none"><li>• 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</li><li>• Immunofluorescence 1-2 µg/mL</li><li>• ELISA For coating use Ab at 2-5 µg/mL, order Ab without BSA</li><li>• Flow Cytometry 0.25-0.5 µg/million cells in 0.1 mL</li><li>• Optimal dilution for a specific application should be determined by user</li></ul> |
| Comment:           | MCF-7 or MDA-231 cells. Breast, colon, ovarian, endometrial carcinoma.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Handling

|         |        |
|---------|--------|
| Format: | Liquid |
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## Handling

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|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| 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. |