

Datasheet for ABIN371859
anti-MUC1 antibody (C-Term)



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Overview

Quantity:	50 µL
Target:	MUC1
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This MUC1 antibody is un-conjugated
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Synthetic Peptide derived from C-terminal sequence of Human CD227/Mucin-1.
Clone:	G22-L
Isotype:	Ig Fraction
Specificity:	This antibody recognizes Mucin 1 (MUC1/CA15-3/CA27-29).
Cross-Reactivity (Details):	Species reactivity (tested):Human.
Characteristics:	Synonyms: MUC-1, PEMT, Episialin, EMA, H23AG, PUM, DF3, CA 15-3, Polymorphic epithelial mucin,Tumor-associated mucin, Carcinoma-associated mucin, Tumor-associated epithelialmembrane antigen, Peanut-reactive urinary mucin, Breast carcinoma-associated antigenDF3
Purification:	Purified

Target Details

Target:	MUC1
Alternative Name:	CD227 / Mucin-1 / MUC1 (MUC1 Products)
Background:	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 overexpressed abundantly in >90 % breast carcinomas and metastases. Transgenic MUC1 has been shown to associate with all four cebB receptors and localize with erbB1 (EGFR) in lactating glands. The MUC1 gene contains seven exons and 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. Isoform 7 of MUC1 behaves as a receptor and binds the secreted isoform 5. The binding induces the phosphorylation of the isoform 7, alters cellular morphology and initiates cell signaling. Synonyms: Breast carcinoma-associated antigen DF3, CA 15-3, Carcinoma-associated mucin, DF3, EMA, Episialin, H23AG, MUC-1, PEMT, PUM, Peanut-reactive urinary mucin, Polymorphic epithelial mucin, Tumor-associated epithelial membrane antigen, Tumor-associated mucin
Gene ID:	4582
UniProt:	P15941
Pathways:	Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes:	Immunohistochemistry on Paraffin Sections: 10 µg/mL. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	20 mM Tris-HCl, pH 8.0 containing 20 mg/mL BSA as stabilizer and 0.05 % Sodium Azide as preservative
Preservative:	Sodium azide

Handling

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store the antibody (in aliquots) at -20 °C. Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

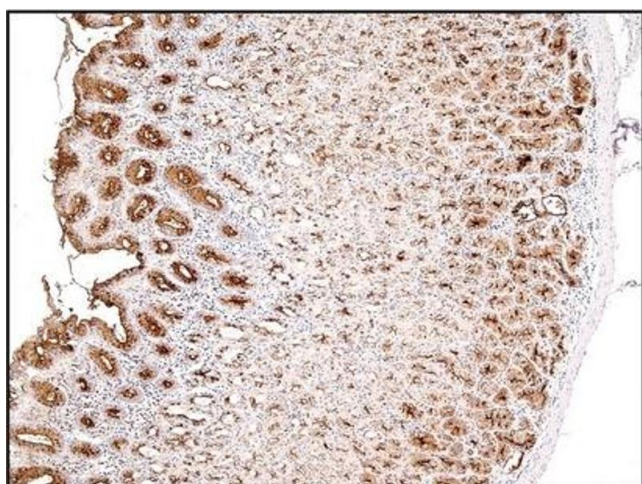
Expiry Date: 12 months

Publications

Product cited in: Szlendak, Sitarz, Berbecka, Mielko, Morsink, Maciejewski, Offerhaus, Polkowski: "Expression of cyclooxygenase-2 and mucin 1 in colorectal cancer." in: **Molecular and clinical oncology**, Vol. 13, Issue 5, pp. 52, (2020) ([PubMed](#)).

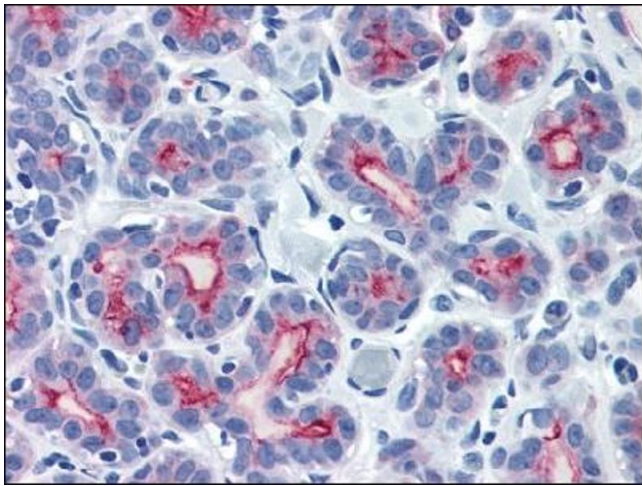
Margarit, Taylor, Roberts, Hopkins, Davies, Brenton, Conlan, Bunkheila, Joels, White, Gonzalez: "MUC1 as a discriminator between endometrium from fertile and infertile patients with PCOS and endometriosis." in: **The Journal of clinical endocrinology and metabolism**, Vol. 95, Issue 12, pp. 5320-9, (2011) ([PubMed](#)).

Images



Immunohistochemistry

Image 1.



Immunohistochemistry

Image 2.