

Product datasheet for **SM1708**

EMA (MUC1) Mouse Monoclonal Antibody [Clone ID: C595]

Product data:

Product Type:	Primary Antibodies
Clone Name:	C595
Applications:	ELISA, FC, IF, IHC, WB
Recommended Dilution:	Western Blot. Flow Cytometry. ELISA: 1/100-1/1000. Immunofluorescence. Immunohistochemistry on Frozen and Paraffin Sections: This product does not require protein digestion pre-treatment of paraffin sections but does requires antigen retrieval using heat treatment prior to staining of paraffin sections. <i>Recommended Positive Control:</i> Breast carcinoma.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG3
Clonality:	Monoclonal
Immunogen:	Urinary MUC-1 mucin. Spleen cells from immunised Balb/c mice were fused with cells of a mouse myeloma cell line.
Specificity:	This antibody recognises CD227, the breast cancer associated mucin encoded by the Muc-1 gene. In normal tissues expression is restricted to specialised glandular epithelial. SM1708 recognizes the peptide epitope ARG-PRO-ALA-PRO within the protein core of the Mucin.
Formulation:	PBS containing 0.09% Sodium Azide as preservative. State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.



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Stability:	Shelf life: one year from despatch.
Gene Name:	mucin 1, cell surface associated
Database Link:	Entrez Gene 4582 Human P15941
Background:	<p>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.</p>
Synonyms:	MUC-1, PEMT, Episialin, EMA, H23AG, PUM, DF3, CA 15-3