

## Product datasheet for **BM612**

### EMA (MUC1) Mouse Monoclonal Antibody [Clone ID: VU-4H5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	VU-4H5
Applications:	ELISA, IHC
Recommended Dilution:	<b>ELISA.</b> <b>Immunohistochemistry on Frozen Sections.</b> <b>Immunohistochemistry on Paraffin Sections.</b>
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	60-mer tandem repeat of VTSAPDTRPAPGSTAPPAHG, conjugated to BSA.
Specificity:	Reacts with the APDTR peptide sequence (VTSAPDTRPAPGSTAPPAHG) of Human CD227. Exhibits Complete Cell Distribution in Breast Cancer Cells.
Formulation:	PBS buffer, pH 7.2 containing 0.09% Sodium Azide as preservative. State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A.
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.
Stability:	Shelf life: one year from despatch.
Gene Name:	mucin 1, cell surface associated
Database Link:	<a href="#">Entrez Gene 4582 Human P15941</a>



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**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.

**Synonyms:**

MUC-1, PEMT, Episialin, EMA, H23AG, PUM, DF3, CA 15-3