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Product datasheet for AM20621PU-N

EMA (MUC1) Mouse Monoclonal Antibody [Clone ID: EMA-39]

Product data:

Product Type:	Primary Antibodies
Clone Name:	EMA-39
Applications:	IF, IHC, IP
Recommended Dilution:	**Immunohistochemistry on Paraffin-Embedded Sections:** 2-4 µg/ml, Human, By Heat. **Immunohistochemistry on Frozen Sections:** 2-4 µg/ml, Human.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human milk fat globule membranes.
Specificity:	This antibody reacts to CD227. No cross reactivity with other proteins.
Formulation:	1.2 % sodium acetate, with 2 mg BSA and 0.01 mg sodium azide as preservative. State: Purified State: Lyphilized purified Ig fraction
Reconstitution Method:	Add 1ml of PBS buffer will yield a concentration of 0.1 mg/ml.
Concentration:	0,1 mg/ml (after reconstitution with PBS)
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	mucin 1, cell surface associated
Database Link:	Entrez Gene 4582 Human P15941

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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 Oglycosylated and alterations in glycosylation have been shown in epithelial cancer cells.

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

Protein Families: Druggable Genome, Secreted Protein, Transmembrane