

Product datasheet for **AM32167PU-N**

EMA (MUC1) Mouse Monoclonal Antibody [Clone ID: VU-12E1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	VU-12E1
Applications:	ELISA, IHC
Recommended Dilution:	ELISA. Immunohistochemistry on frozen sections.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	A Balb/c mouse was immunized with live cells (10e7 cells/dose in PBS) of human breast cancer cell line ZR-75-1. Splenocytes were fused with SP2/0 mouse myeloma cells. Stability of the hybridomas was established by subcloning four times.
Specificity:	VU-12E1 reacts with MUC1.
Formulation:	PBS State: Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	lot specific
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:	Entrez Gene 4582 Human P15941



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Background:

MUC1 is a large transmembrane glycoprotein expressed on the ductal surface of normal glandular epithelia. The extracellular domain of MUC1 largely consists of a highly conserved, O-glycosylated 20 aminoacids tandem repeat which can occur 30-100 times per molecule depending on the length of the allele involved. In the vast majority of human carcinomas this protein is upregulated and poorly glycosylated and appears on the cell surface in a non-polarized fashion. The dominant epitope of mAb VU12E1 is the 5-mer PDTRP of the MUC1 tandem repeat as established with “epitope fingerprinting”.

Synonyms:

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