

Product datasheet for **AR00024PU-N**

CD227 / Mucin-1 / MUC1 Human Protein

Product data:

Product Type:	Native Proteins
Description:	CD227 / Mucin-1 / MUC1 human protein, 250 kU
Species:	Human
Protein Source:	Milk
Concentration:	lot specific
Purity:	High speed centrifugation, salt precipitation and delipidation.
Buffer:	Presentation State: Purified State: Liquid purified Buffer System: 1M Sodium chloride, 0.09% Sodium azide
Preparation:	Liquid purified
Applications:	Immunogen, calibrator in immunoassays and in vitro studies.
Protein Description:	Human Cancer Antigen 15-3 (CA15-3) (Breast Cancer) Antigen Grade
Note:	Caution: All human source materials have tested negative for HIV1, HIV2, HCV antibodies and HBsAg. No test guarantees a product to be non-infectious. Therefore, all material derived from human fluids or tissues should be considered as potentially infectious.
Storage:	Store the protein 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.
RefSeq:	NP_001018016
Locus ID:	4582
Cytogenetics:	1q22
Synonyms:	ADMCKD; ADMCKD1; ADTKD2; CA 15-3; CD227; EMA; H23AG; KL-6; MAM6; MCD; MCKD; MCKD1; MUC-1; MUC-1/SEC; MUC-1/X; MUC1/ZD; PEM; PEMT; PUM



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Summary:

This gene encodes a membrane-bound protein that is a member of the mucin family. Mucins are O-glycosylated proteins that play an essential role in forming protective mucous barriers on epithelial surfaces. These proteins also play a role in intracellular signaling. This protein is expressed on the apical surface of epithelial cells that line the mucosal surfaces of many different tissues including lung, breast stomach and pancreas. This protein is proteolytically cleaved into alpha and beta subunits that form a heterodimeric complex. The N-terminal alpha subunit functions in cell-adhesion and the C-terminal beta subunit is involved in cell signaling. Overexpression, aberrant intracellular localization, and changes in glycosylation of this protein have been associated with carcinomas. This gene is known to contain a highly polymorphic variable number tandem repeats (VNTR) domain. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Feb 2011]

Protein Families:

Druggable Genome, Secreted Protein, Transmembrane