

CA125/MUC16

Catalog # PVGS1633

Specification

CA125/MUC16 - Product Information

Primary Accession **Species** Human Q8WXI7

Sequence

Gly12660-Met12923

Purity

> 95% as analyzed by SDS-PAGE
br>> 95% as analyzed by HPLC

Endotoxin Level

≤ 1 EU/ µg of protein by LAL method

Biological Activity

Immobilized Human CA125, His & Avi Tag at 5.0 μ g/ml (100 μ l/Well). Dose response curve for Human MSLN with the EC₅₀ of 3.78 μ g/ml determined by ELISA.

Expression System

Expi293

Formulation Lyophilized from a 0.22 µm filtered

solution in PBS, pH 7.4. Normally 5 % trehalose is added as protectant before

lyophilization.

Reconstitution

It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in distilled water up to $100 \mu g/ml$.

Storage & Stability

Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Avoid repeated freeze-thaw cycles.

CA125/MUC16 - Additional Information

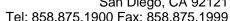
Gene ID 94025

Other Names

Mucin-16, MUC-16, Ovarian cancer-related tumor marker CA125, CA-125, Ovarian carcinoma antigen CA125, MUC16 (HGNC:15582)

Target Background

MUC16, also known as the CA125 antigen, is a mucin protein that may be found in type I





transmembrane or secreted forms that are used monitor the progress of epithelial ovarian cancer therapy. Thought to provide a protective, lubricating barrier against particles and infectious agents at mucosal surfaces. Binding to MSLN mediates heterotypic cell adhesion. This may contribute to the metastasis of ovarian cancer to the peritoneum by initiating cell attachment to the mesothelial epithelium via binding to MSLN.

CA125/MUC16 - Protein Information

Name MUC16 (HGNC:15582)

Function

Thought to provide a protective, lubricating barrier against particles and infectious agents at mucosal surfaces.

Cellular Location

Cell membrane; Single-pass type I membrane protein. Secreted, extracellular space. Note=May be liberated into the extracellular space following the phosphorylation of the intracellular C-terminus which induces the proteolytic cleavage and liberation of the extracellular domain

Tissue Location

Expressed in corneal and conjunctival epithelia (at protein level). Overexpressed in ovarian carcinomas and ovarian low malignant potential (LMP) tumors as compared to the expression in normal ovarian tissue and ovarian adenomas

CA125/MUC16 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CA125/MUC16 - Images