# Recombinant Human MUC-16/CA125 Protein

**Catalog No.: RP01444**

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## Sequence Information

**Species**
Human

**Gene ID**
94025

**Swiss Prot**
Q8WXI7

**Tags**
C-hFc&Avi

**Synonyms**
CA125,MUC16,mucin-16

## Product Information

**Source**
HEK293 cells

**Purification**
≥ 95 % as determined by SDS-PAGE.

**Calculated MW**
56.14 kDa

**Observed MW**
80-110 kDa

**Endotoxin**
< 0.1 EU/μg of the protein by LAL method.

**Formulation**
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

**Reconstitution**
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

The CA125, also known as the MUC16, 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. The CA 125 molecule is almost certainly a glycoprotein with a predominance of O-linkages. It is heterogeneous with regard to both size and charge, most likely due to continuous deglycosylation of side chains during its life-span in bodily fluids. It exists as a very large complex (perhaps as much as 4 million daltons) under natural conditions.

## Basic Information

**Description**
Recombinant Human MUC-16/CA125 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly12660-Met12923) of human CA125/MUC16 (Accession #NP_078966.2) fused with a Fc, Avi tag at the C-terminus.

**Activity**
Measured by its binding ability in a functional ELISA.Immobilized Mouse Mesothelin/MSLN at 2 μg/mL (100 μL/well) can bind Human CA125 with a linear range of 0.01-0.72 ng/mL.

**Shipping**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -20℃

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

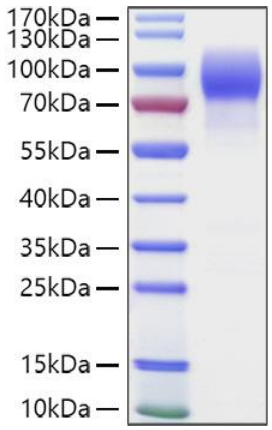
**Contact**

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

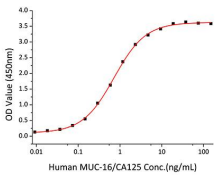


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## Validation Data




Recombinant Human MUC-16/CA125 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.




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