

Datasheet for ABIN5510649

MUC16 ELISA Kit[1 Image](#)[1 Publication](#)[Go to Product page](#)

Overview

Quantity:	96 tests
Target:	MUC16 (CA125)
Binding Specificity:	AA 21005-21992
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human CA125/MUC16
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: CHO Immunogen sequence: M21005-Q21992
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Characteristics:	Tissue Specificity: 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. .

Target Details

Target:	MUC16 (CA125)
---------	---------------

Target Details

Alternative Name: MUC16 ([CA125 Products](#))

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

Background: CA-125, also known as mucin 16 or MUC16, is a protein that in humans is encoded by the MUC16 gene. MUC16 is a member of the mucin family glycoproteins. It is a component of the ocular surface, the respiratory tract and the female reproductive tract epithelia. Since MUC16 is highly glycosylated it creates a hydrophilic environment that acts as a lubricating barrier against foreign particles and infectious agents on the apical membrane of epithelial cells. Also, the cytoplasmic tail of MUC16 has been shown to interact with cytoskeleton by binding members of the ERM protein family. The expression of mucin 16 has been shown to be altered in dry eye, cystic fibrosis, and several types of cancers.

Synonyms: Mucin-16 ,MUC-16,Ovarian cancer-related tumor marker CA125 ,CA-125 ,Ovarian carcinoma antigen CA125 ,MUC16 ,CA125 ,

Full Gene Name: Mucin-16

Cellular Localisation: Cell membrane, Single-pass type I membrane protein. Secreted, extracellular space. 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.

UniProt: [Q8WXI7](#)

Application Details

Plate: Pre-coated

Restrictions: For Research Use only

Handling

Storage: 4 °C,-20 °C

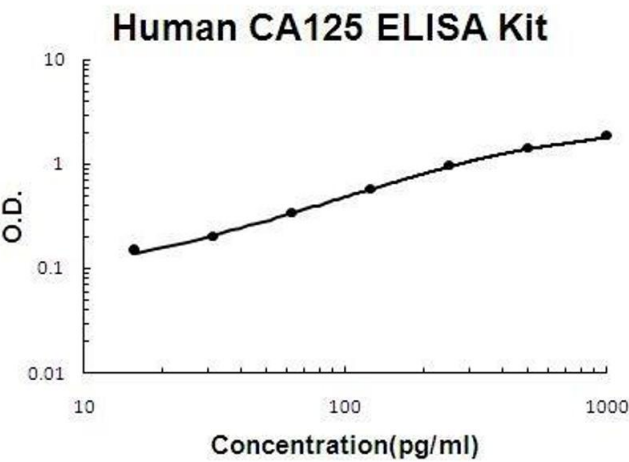
Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)

Expiry Date: 12 months

Publications

Product cited in: Li, Zhang, Wang, Li, Cao, Tan, Ma, Gao: "TGFβ1 in fibroblasts-derived exosomes promotes epithelial-mesenchymal transition of ovarian cancer cells." in: **Oncotarget**, Vol. 8, Issue 56, pp.

96035-96047, (2017) ([PubMed](#)).



ELISA

Image 1. Human CA125/MUC16 PicoKine ELISA Kit standard curve