CA125 Protein, Human (Biotinylated, 685a.a, HEK293, His-Avi)

Cat. No.:	HY-P700960
Synonyms:	CA125; CA-125; CA125MUC-16; FLJ14303; MUC16
Species:	Human
Source:	HEK293
Accession:	Q8WXI7 (D12783-S13467)
Gene ID:	94025
Molecular Weight:	90-140 kDa

PROPERTIES

Biological Activity	Immobilized Human MSLN, hFc Tag at 0.5 μg/mL (100 μl/well) on the plate. Dose response curve for Biotinylated Human CA125, His Tag with the EC_{50} of ≤17 ng/mL determined by ELISA.
Appearance	Lyophilized powder
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CA125 protein is believed to serve a crucial role in establishing a protective and lubricating barrier against particles and infectious agents at mucosal surfaces. It exerts its functions through binding to MSLN, where the interaction mediates heterotypic cell adhesion. This adhesive property may play a significant role in the metastasis of ovarian cancer to the peritoneum, as CA125 initiates cell attachment to the mesothelial epithelium by binding to MSLN. The interaction between CA125 and MSLN underscores its potential involvement in the adhesive events associated with cancer metastasis, particularly in the context of ovarian cancer progression to the peritoneal cavity.

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