

CA125 Protein, Human (HEK293, His)

Cat. No.:	HY-P7696
Synonyms:	rHuCA125, His; CA125 ovarian cancer antigen; CA125; CA125MUC-16;
Species:	Human
Source:	HEK293
Accession:	Q8WXI7 (G12660-M12923)
Gene ID:	94025
Molecular Weight:	40-80 kDa

PROPERTIES

AA Sequence	<p>G F T H W I P V P T S S T P G T S T V D L G S G T P S S L P S P T T A G P L L V</p> <p>P F T L N F T I T N L K Y E E D M H C P G S R K F N T T E R V L Q S L L G P M F</p> <p>K N T S V G P L Y S G C R L T L L R S E K D G A A T G V D A I C T H R L D P K S</p> <p>P G V D R E Q L Y W E L S Q L T N G I K E L G P Y T L D R N S L Y V N G F T H Q</p> <p>T S A P N T S T P G T S T V D L G T S G T P S S L P S P T S A G P L L V P F T L</p> <p>N F T I T N L Q Y E E D M H H P G S R K F N T T E R V L Q G L L G P M F K N T S</p> <p>V G L L Y S G C R L T L L R P E K N G A A T G M H H H H H H</p>
Biological Activity	<p>1. Immobilized Human Mesothelin at 10 µg/mL (100 µl/well) can bind recombinant Human CA125, His (HEK293-expressed) (rHuCA125, His). The ED₅₀ of recombinant Human CA125, His (HEK293-expressed) (rHuCA125, His) is ≤2 µg/mL.</p> <p>2. Immobilized Recombinant Human MSLN/Mesothelin Protein at 2 µg/mL (100 µl/well) can bind Biotinylated Recombinant Human CA125 Protein. The ED₅₀ for this effect is 5.731 ng/mL, corresponding to a specific activity is 1.74×10⁵ Unit/mg.</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 50 mM Tris, 100 mM Glycine, pH 7.5 or 50 mM Tris-HCL, 300 mM NaCl, 100 mM Glycine, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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 is a tumor antigen that has been defined as a marker primarily for ovarian carcinoma^[1].

REFERENCES

[1]. Claudia Seelenmeyer, et al. The cancer antigen CA125 represents a novel counter receptor for galectin-1. J Cell Sci. 2003 Apr 1;116(Pt 7):1305-18.

Caution: Product has not been fully validated for medical applications. For research use only.

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