

Human Carbohydrate Antigen 125 (CA125) ELISA Kit | CA125 elisa kit

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CATALOG #
AAA331622

REACTIVITY
Human

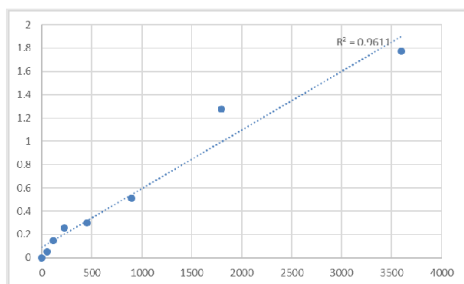
PRODUCT SYNONYMS

Carbohydrate Antigen 125 (CA125); Human Carbohydrate Antigen 125 (CA125) ELISA Kit; MUC16; CA125; FLJ14303; CA125 ovarian cancer antigen; mucin 16; CA125 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Carbohydrate antigen 125 (CA125) ELISA Kit has high sensitivity and excellent specificity for detection of Human MUC16. No significant cross-reactivity or interference between Human MUC16 and analogues was observed.
Sequence Length	14507
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Carbohydrate antigen 125 (CA125) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for CA125 elisa kit	Description: This Human Carbohydrate antigen 125 (CA125) ELISA Kit employs a two-site sandwich ELISA to quantitate MUC16 in samples. An antibody specific for MUC16 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MUC16 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MUC16 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MUC16 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: CA125 encodes a protein that is a member of the mucin family. Mucins are high molecular weight, O-glycosylated proteins that play an important role in forming a protective mucous barrier, and are found on the apical surfaces of the epithelia. The encoded protein is a membrane-tethered mucin that contains an extracellular domain at its amino terminus, a large tandem repeat domain, and a transmembrane domain with a short cytoplasmic domain. The amino terminus is highly glycosylated, while the repeat region contains 156 amino acid repeats unit that are rich in serines, threonines, and prolines. Interspersed within the repeats are Sea urchin sperm protein Enterokinase and Agrin (SEA) modules, leucine-rich repeats and ankyrin (ANK) repeats. These regions together form the ectodomain, and there is a potential cleavage site found near an SEA module close to the transmembrane domain. This protein is thought to play a role in forming a barrier, protecting epithelial cells from pathogens. Products of this gene have been used as a marker for different cancers, with higher expression levels associated with poorer outcomes.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	83367077
NCBI GeneID	94025
NCBI Accession #	NP_078966.2
NCBI GenBank Nucleotide #	NP_078966.2
UniProt Accession #	Q8WXI7
NCBI Official Full Name	mucin-16
NCBI Official Synonym Full Names	mucin 16, cell surface associated
NCBI Official Symbol	MUC16
NCBI Official Synonym Symbols	CA125
NCBI Protein Information	mucin-16
UniProt Protein Name	Mucin-16
UniProt Gene Name	MUC16
UniProt Synonym Gene Names	CA125; MUC-16; CA-125
UniProt Entry Name	MUC16_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/carbohydrate-antigen-125-ca125/331622>