

Mouse Clara Cell Protein 16 (CC16) ELISA Kit | CC16 elisa kit

Mouse Clara Cell Protein 16 (CC16) Mini Samples ELISA Kit

CATALOG # AAA23117	REACTIVITY Mouse	APPLICATIONS ELISA
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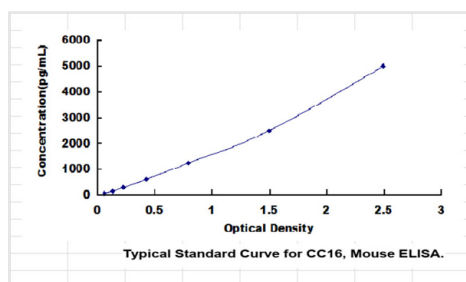
PRODUCT SYNONYMS

Clara Cell Protein 16 (CC16); Mouse Clara Cell Protein 16 (CC16) Mini Samples ELISA Kit; Clara Cell Protein 16; SCGB1A1; CC10; CCSP; UGB; UG; Uteroglobin; Urinary Protein 1; Clara Cell Secretory Protein; Secretoglobin Family 1A Member 1; Clara-Cell Specific 10-kD Protein; CC16 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of CC16. No significant cross-reactivity or interference between CC16 and analogues was observed.
Sequence Length	96
Assay Type	Quantitative Sandwich
Samples	Mouse serum, plasma, tissue homogenates, cell lysates, lung lavage fluid, cell culture supernates and other biological fluids
Detection Range	78-5,000pg/mL
Sensitivity	< 30pg/mL
Applicable Applications for CC16 elisa kit	ELISA
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CC16 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CC16 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CC16 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to CC16. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to CC16. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CC16, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of CC16 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CC16 in mouse serum, plasma, tissue homogenates, cell lysates, lung lavage fluid, cell culture supernates and other biological fluids.
References	Extracellular vesicle-encapsulated CC16 as novel nanotherapeutics for treatment of acute lung injury; Mol Ther; 2023 Jan 11;S1525-0016(23)00009-6.; PMID: 36635966; Yohan Han; Clinical and Experimental Therapeutics, College of Pharmacy, University of Georgia and Charlie Norwood VA Medical Center, Augusta, GA 30912, USA.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6755947
NCBI GeneID	22287
NCBI Accession #	NP_035811.1
NCBI GenBank Nucleotide #	NP_035811.1
UniProt Accession #	Q06318
NCBI Official Full Name	uteroglobin
NCBI Official Synonym Full Names	secretoglobin, family 1A, member 1 (uteroglobin)
NCBI Official Symbol	Scgb1a1
NCBI Official Synonym Symbols	UG; UGB; Utg; CC10; CC16; CCSP; PCB-BP
NCBI Protein Information	uteroglobin
UniProt Protein Name	Uteroglobin
UniProt Gene Name	Scgb1a1
UniProt Synonym Gene Names	Cc10; Ugb; Utg; CCPBP; CC10
UniProt Entry Name	UTER_MOUSE

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.