

Human Ornithine Decarboxylase (ODC) ELISA Kit | ODC elisa kit

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CATALOG #
AAA137884

REACTIVITY
Human

PRODUCT SYNONYMS

Ornithine Decarboxylase (ODC); Human Ornithine Decarboxylase (ODC) ELISA Kit; ODC1; ODC elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of ODC. No significant cross-reactivity or interference between ODC and analogues was observed.
Sequence Length	461
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma, tissue homogenates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.117ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ODC 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 ODC 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.

ADDITIONAL INFORMATION

Related Product Information for ODC elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to ODC. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to ODC. 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 ODC, 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 $\pm$ 10nm. The concentration of ODC 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 ODC in human serum, plasma, tissue homogenates and other biological fluids.
Product Categories/Family for ODC elisa kit	Enzyme & Kinase; Metabolic pathway; Tumor immunity
References	The Role of Some Enzymes in the Early Diagnosis of Patients with Colon Cancer; SB Mohamed

NCBI AND UNIPROT INFORMATION

NCBI GI #	6981302
NCBI GeneID	24609
NCBI Accession #	NP_036747.1
NCBI GenBank Nucleotide #	NM_012615.3
UniProt Accession #	P09057
Molecular Weight	51,047 Da
NCBI Official Full Name	ornithine decarboxylase
NCBI Official Synonym Full Names	ornithine decarboxylase 1
NCBI Official Symbol	Odc1
NCBI Official Synonym Symbols	Odc
NCBI Protein Information	ornithine decarboxylase
UniProt Protein Name	Ornithine decarboxylase
UniProt Gene Name	Odc1
UniProt Synonym Gene Names	Odc; ODC
UniProt Entry Name	DCOR_RAT

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://www.aaabiotech.com/human-elisa-kits/ornithine-decarboxylase-odc/137884>