

Human Carboxylesterase 2 (CES2) ELISA Kit | CES2 elisa kit

Human Carboxylesterase 2 (CES2) Wide-range ELISA Kit

CATALOG # AAA189213	REACTIVITY Human	APPLICATIONS ELISA
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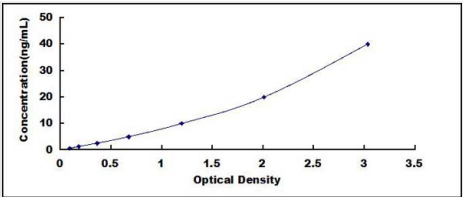
PRODUCT SYNONYMS

Carboxylesterase 2 (CES2); Human Carboxylesterase 2 (CES2) Wide-range ELISA Kit; Carboxylesterase 2; CE-2; CES2A1; PCE-2; iCE; Intestine; Liver; Methylumbelliferyl-acetate deacetylase 2; Cocaine esterase; CES2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Wide-range Carboxylesterase 2 (CES2). No significant cross-reactivity or interference between Wide-range Carboxylesterase 2 (CES2) and analogues was observed.
Sequence Length	623
Assay Type	Double-antibody Sandwich
Samples	Serum, plasma, tissue homogenates and other biological fluids
Detection Range	0.625-40ng/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 0.245ng/mL
Applicable Applications for CES2 elisa kit	ELISA
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Wide-range Carboxylesterase 2 (CES2) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Wide-range Carboxylesterase 2 (CES2) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10% Inter-Assay: CV<12%
Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Wide-range Carboxylesterase 2 (CES2). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Wide-range Carboxylesterase 2 (CES2). 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 Wide-range Carboxylesterase 2 (CES2), 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 Wide-range Carboxylesterase 2 (CES2) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	37622885
NCBI GeneID	8824
NCBI Accession #	NP_003860.2
NCBI GenBank Nucleotide #	NP_003860.2
UniProt Accession #	O00748
NCBI Official Full Name	cocaine esterase isoform 1
NCBI Official Synonym Full Names	carboxylesterase 2
NCBI Official Symbol	CES2
NCBI Official Synonym Symbols	iCE; CE-2; PCE-2; CES2A1
NCBI Protein Information	cocaine esterase
UniProt Protein Name	Cocaine esterase
UniProt Gene Name	CES2
UniProt Synonym Gene Names	ICE; CE-2; hCE-2
UniProt Entry Name	EST2_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.