

Rat Caspase 1 (CASP1) ELISA Kit | CASP1 elisa kit

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CATALOG #
AAA136101

REACTIVITY
Rat

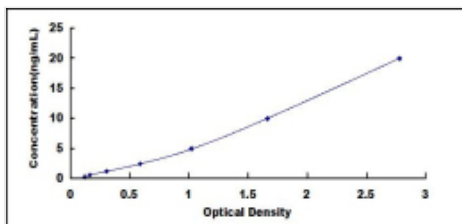
PRODUCT SYNONYMS

Caspase 1 (CASP1); Rat Caspase 1 (CASP1) ELISA Kit; ICE; IL1BC; IL1-BC; P45; Interleukin 1 Beta Converting Enzyme; Apoptosis-Related Cysteine Peptidase; Interleukin-1 beta convertase; CASP1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Caspase 1 (CASP1). No significant cross-reactivity or interference between Caspase 1 (CASP1) and analogues was observed.
Sequence Length	402
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.113ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Caspase 1 (CASP1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Caspase 1 (CASP1) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
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 CASP1 elisa kit	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 Caspase 1 (CASP1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Caspase 1 (CASP1). 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 Caspase 1 (CASP1), 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 Caspase 1 (CASP1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for CASP1 elisa kit	Signal transduction; Enzyme & Kinase; Apoptosis; Infection immunity

NCBI AND UNIPROT INFORMATION

NCBI GI #	31542341
NCBI GeneID	25166
NCBI Accession #	NP_036894.2
NCBI GenBank Nucleotide #	NM_012762.2
UniProt Accession #	P43527
Molecular Weight	45,576 Da
NCBI Official Full Name	caspase-1
NCBI Official Synonym Full Names	caspase 1
NCBI Official Symbol	Casp1
NCBI Official Synonym Symbols	Ice; Il1bc
NCBI Protein Information	caspase-1
UniProt Protein Name	Caspase-1
UniProt Gene Name	Casp1
UniProt Synonym Gene Names	Il1bc; Il1bce; CASP-1; IL-1BC; ICE; IL-1 beta-converting enzyme
UniProt Entry Name	CASP1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/caspase-1-casp1/136101>