

Human Caspase 3 PicoKine ELISA Kit | CASP3 elisa kit

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CATALOG #
AAA46160

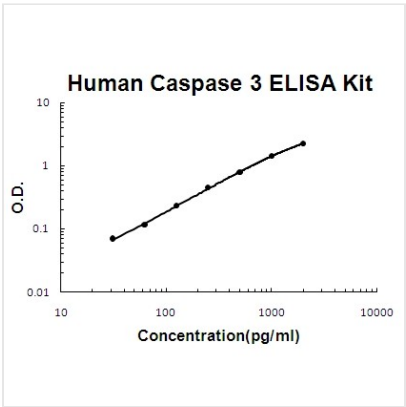
REACTIVITY
Human

PRODUCT SYNONYMS

Caspase 3 PicoKine; Human Caspase 3 PicoKine ELISA Kit; Caspase-3; CASP-3; CASP3; CASP 3; Caspase3; Caspase 3; SCA-1; SCA 1; SCA1 ; caspase 3; CASP3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human Caspase 3
Sequence Length	277
Assay Range	31.2pg/ml-2000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of human Caspase 3 in cell culture supernates, tissue homogenates and serum.
Immunogen	E Coli,S29-D175&A183-H277
Assay Procedure Step 1	Aliquot 0.1ml per well of the 2000pg/ml,1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml human Caspase 3 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, tissue homogenates or serum to each empty well. It is recommended that each human Caspase 3 standard solution and each sample be measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(pg/ml) 140 517 1437 168 724 1583 Standard deviation 4.9 21.71 70.41 8.74 47.06 115.56 CV(%) 3.5 4.2 4.9 5.2 6.5 7.3
Sample Data	Concentration(pg/ml) 0 31.2 62.5 125 250 500 1000 2000 O.D. 0.020 0.069 0.114 0.228 0.443 0.783 1.395 2.220
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human Caspase 3 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for CASP3 elisa kit	Principle of the assay: Human Caspase 3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Caspase 3 has been precoated onto 96-well plates. Standards(Expression system for standard: E Coli, Immunogen sequence: S29-D175 & A183-H277) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Caspase 3 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human Caspase 3 amount of sample captured in plate. Background: Caspase-3 is a caspase protein that is encoded by the CASP3 gene. This gene encodes a protein which is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 6, 7 and 9, and the protein itself is processed by caspases 8, 9 and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease. Alternative splicing of this gene results in two transcript variants that encode the same protein.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	14790119
NCBI GeneID	836
NCBI Accession #	NP_004337.2
NCBI GenBank Nucleotide #	NM_004346.3
UniProt Accession #	P42574; Q96AN1; Q96KP2; A8K5M2; D3DP53
Molecular Weight	31,608 Da
NCBI Official Full Name	caspase-3 preproprotein
NCBI Official Synonym Full Names	caspase 3
NCBI Official Symbol	CASP3
NCBI Official Synonym Symbols	CPP32; SCA-1; CPP32B
NCBI Protein Information	caspase-3
UniProt Protein Name	Caspase-3

UniProt Gene Name	CASP3
UniProt Synonym Gene Names	CPP32; CASP-3; CPP-32; SCA-1
UniProt Entry Name	CASP3_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/caspase-3-picokine/46160>