

Human Calpain 2, Large Subunit (CAPN2) ELISA Kit | CAPN2 elisa kit

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CATALOG #
AAA138527

REACTIVITY
Human

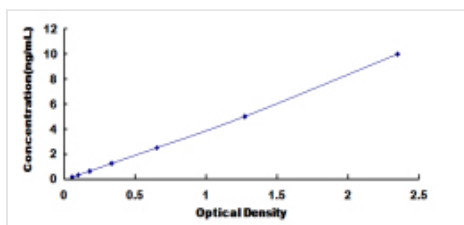
PRODUCT SYNONYMS

Calpain 2; Large Subunit (CAPN2); Human Calpain 2; Large Subunit (CAPN2) ELISA Kit; CANPL2; CANPml; mCANP; Calpain-2 Catalytic Subunit; Calcium-activated neutral proteinase 2; Calpain M-type; Calpain large polypeptide L2; Millimolar-calpain; CAPN2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Calpain 2, Large Subunit (CAPN2). No significant cross-reactivity or interference between Calpain 2, Large Subunit (CAPN2) and analogues was observed.
Sequence Length	622
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.059ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Calpain 2, Large Subunit (CAPN2) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Calpain 2, Large Subunit (CAPN2) 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 CAPN2 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 Calpain 2, Large Subunit (CAPN2). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Calpain 2, Large Subunit (CAPN2). 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 Calpain 2, Large Subunit (CAPN2), 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 Calpain 2, Large Subunit (CAPN2) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for CAPN2 elisa kit	Signal transduction; Enzyme & Kinase; Neuroscience; Gastroenterology

NCBI AND UNIPROT INFORMATION

NCBI GI #	157389005
NCBI GeneID	824
NCBI Accession #	NP_001739.2
NCBI GenBank Nucleotide #	NM_001748.4
UniProt Accession #	P17655; Q16738; Q6PJT3; Q8WU26; Q9HBB1; A6NDG7; B7ZA96; E7ES58
Molecular Weight	71,476 Da
NCBI Official Full Name	calpain-2 catalytic subunit isoform 1
NCBI Official Synonym Full Names	calpain 2, (m/II) large subunit
NCBI Official Symbol	CAPN2
NCBI Official Synonym Symbols	CANP2; mCANP; CANPL2; CANPml
NCBI Protein Information	calpain-2 catalytic subunit
UniProt Protein Name	Calpain-2 catalytic subunit
UniProt Gene Name	CAPN2
UniProt Synonym Gene Names	CANPL2; CANP 2; M-calpain
UniProt Entry Name	CAN2_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/calpain-2-large-subunit-capn2/138527>