

Human Calpastatin (CAST) ELISA Kit | CAST elisa kit

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CATALOG #
AAA149116

REACTIVITY
Human

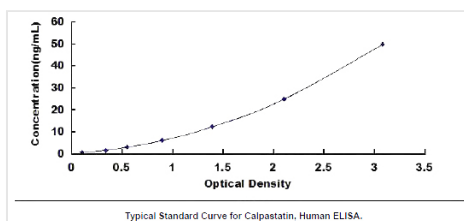
PRODUCT SYNONYMS

Calpastatin (CAST); Human Calpastatin (CAST) ELISA Kit; BS17; Calpain inhibitor; Sperm BS-17 component; CAST elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of calnexin. No significant cross-reactivity or interference between calnexin and analogues was observed.
Sequence Length	186
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.78-50ng/mL
Sensitivity	0.33ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level calnexin 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 calnexin 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.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CAST elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of calnexin in human tissue homogenates, cell lysates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to calnexin. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to calnexin. 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 calnexin, 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 calnexin in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for CAST elisa kit	Signal transduction; Neuroscience; Developmental science

NCBI AND UNIPROT INFORMATION

NCBI GI #	663142
NCBI GeneID	831
Molecular Weight	75,304 Da
NCBI Official Full Name	calpastatin, partial
NCBI Official Synonym Full Names	calpastatin
NCBI Official Symbol	CAST
NCBI Official Synonym Symbols	BS-17; PLACK
NCBI Protein Information	calpastatin
UniProt Protein Name	Calpastatin
UniProt Gene Name	CAST

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/calpastatin-cast/149116>