

Rat calpastatin/calpain inhibitor (CAST) ELISA Kit | CAST elisa kit

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CATALOG #
AAA244555

REACTIVITY
Rat

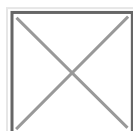
PRODUCT SYNONYMS

calpastatin/calpain inhibitor (CAST); Rat calpastatin/calpain inhibitor (CAST) ELISA Kit; CAST elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of CAST. No significant cross-reactivity or interference between CAST and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CAST and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CAST elisa kit	Intended Uses: This CAST ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat CAST. This ELISA kit for research use only! Principle of the Assay: CAST ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-CAST antibody and an CAST-HRP conjugate. The assay sample and buffer are incubated together with CAST-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the CAST concentration since CAST from samples and CAST-HRP conjugate compete for the anti-CAST antibody binding site. Since the number of sites is limited, as more sites are occupied by CAST from the sample, fewer sites are left to bind CAST-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CAST concentration in each sample is interpolated from this standard curve.
Product Categories/Family for CAST elisa kit	Neurobiology

NCBI AND UNIPROT INFORMATION

NCBI GI #	27765085
NCBI GeneID	831
NCBI Accession #	NP_775083.1
NCBI GenBank Nucleotide #	NM_173060.3
Molecular Weight	80,265 Da
NCBI Official Full Name	calpastatin isoform b
NCBI Official Synonym Full Names	calpastatin
NCBI Official Symbol	CAST
NCBI Official Synonym Symbols	BS-17
NCBI Protein Information	calpastatin; calpain inhibitor; sperm BS-17 component
UniProt Protein Name	Calpastatin
UniProt Gene Name	CAST
UniProt Entry Name	ICAL_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/rat-elisa-kits/calpastatin-calpain-inhibitor-cast/244555>