

Rat Calpain-3 (CAPN3) ELISA Kit | CAPN3 elisa kit

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CATALOG #
AAA244405

REACTIVITY
Rat

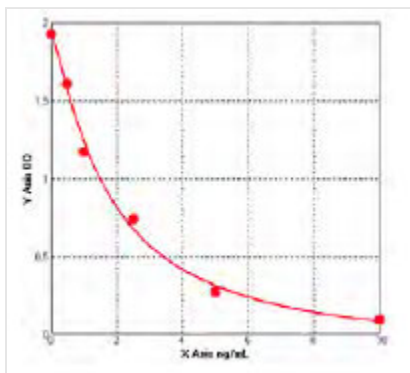
PRODUCT SYNONYMS

Calpain-3 (CAPN3); Rat Calpain-3 (CAPN3) ELISA Kit; CAPN3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of CAPN3. No significant cross-reactivity or interference between CAPN3 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CAPN3 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 CAPN3 elisa kit	Intended Uses: This CAPN3 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of RatCAPN3. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: CAPN3 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-CAPN3 antibody and an CAPN3-HRP conjugate. The assay sample and buffer are incubated together with CAPN3-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 CAPN3 concentration since CAPN3 from samples and CAPN3-HRP conjugate compete for the anti-CAPN3 antibody binding site. Since the number of sites is limited, as more sites are occupied by CAPN3 from the sample, fewer sites are left to bind CAPN3-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CAPN3 concentration in each sample is interpolated from this standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	567316138
NCBI GeneID	102115794
NCBI Accession #	NP_001274630.1
NCBI GenBank Nucleotide #	NM_001287701.1
Molecular Weight	93,556 Da
NCBI Official Full Name	calpain-3
NCBI Official Symbol	CAPN3
NCBI Official Synonym Symbols	Cn94; Calpain-3
NCBI Protein Information	calpain-3; CANP 3; Calpain L3; Calpain p94; Calcium-activated neutral proteinase 3; Muscle-specific calcium-activated neutral protease 3
UniProt Protein Name	Calpain-3
UniProt Gene Name	CAPN3
UniProt Synonym Gene Names	CANP 3
UniProt Entry Name	CAN3_MACFA

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.