

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

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CATALOG #
AAA277213

REACTIVITY
Rat

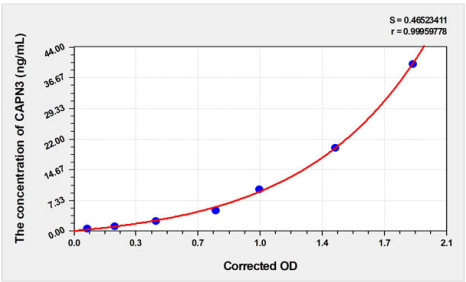
PRODUCT SYNONYMS

CAPN3 (Calpain 3); Rat CAPN3 (Calpain 3) ELISA Kit; CANPL3; p94; LGMD2; LGMD2A; nCL1; Calcium-activated neutral proteinase 3; Muscle-specific calcium-activated neutral protease 3; New calpain 1; CAPN3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Assay Type	Sandwich
Samples	Tissue homogenates and other biological fluids.
Detection Range	0.63-40ng/mL
Sensitivity	0.125ng/mL
Standard	40ng/mL
Assay Length	3.5h
Precision	Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision. Inter-assay Precision (Precision between assays): CV%<10% Three samples of known concentration were tested in forty separate assays to assess inter-assay precision.
Test Principle	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 3 (CAPN3). Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Calpain 3 (CAPN3). 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 3 (CAPN3), 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 450 nm +/- 10 nm. The concentration of Calpain 3 (CAPN3) in the samples is then determined by comparing the OD of the samples to the standard curve.
Standard Curve	Matrices listed below were spiked with certain level of recombinant CAPN3 and the recovery rates were calculated by comparing the measured value to the expected amount of CAPN3 in samples. Matrix Recovery range Average serum (n=5) 98-104% 102% EDTA plasma (n=5) 95-107% 101% Heparin plasma (n=5) 96-104% 100
Recovery Rate	The linearity of the kit was assayed by testing samples spiked with appropriate concentration of CAPN3 and their serial dilutions. The results were demonstrated by the percentage of calculated concentration to the expected. Matrix 1:21:41:81:16 serum (n=5) 83-94% 80-92% 86-102% 87-103% EDTA plasma (n=5) 87-98% 92-104% 82-96% 95-102% Heparin plasma (n=5) 87-96% 85-97% 85-94% 87-96%

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Product Categories/Family for CAPN3 elisa kit	Enzyme & Kinase
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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/capn3-calpain-3/277213>