

Mouse Calpain-1 catalytic subunit (CAPN1) ELISA Kit

Catalog No: #EK11314



Package Size: #EK11314-1 48T #EK11314-2 96T

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Description

Product Name	Mouse Calpain-1 catalytic subunit (CAPN1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (<i>Mus musculus</i>)
Other Names	CANP; CANP1; CANPL1; muCANP; muCL; calcium-activated neutral proteinase calpain 1; large subunit calpain; large polypeptide L1 cell proliferation-inducing protein 30
Accession No.	O35350
Uniprot	O35350
GenID	12333;
Storage	<p>The stability of ELISA 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.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:1.56-100 ng/mL

Sensitivity:0.61 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate CAPN1 in samples. An antibody specific for CAPN1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyCAPN1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CAPN1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of CAPN1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Calpain (calcium-dependent protease) is an intracellular protease that requires calcium for its catalytic activity. Two isozymes, calpain I (mu-calpain) and calpain II (m-calpain), with different calcium requirements, have been identified. Both are heterodimers composed of L (large, catalytic, 80 kD) and S (small, regulatory, 30 kD) subunits. The isozymes share an identical S subunit (CAPNS1), with the differences arising from the L subunits, L1 (CAPN1) and L2 (CAPN2). The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. Calpain-1 catalytic subunit is the large subunit of the ubiquitous enzyme, calpain 1.

Note: This product is for in vitro research use only