



Polyclonal Anti- Calpain-1 (Sepharose Bead Conjugate)

Catalogue No. PA1364-S

Lot No. 0131112146427

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, rat, mouse, . No cross reactivity with other proteins.

Recommended application

(Immunoprecipitation(IP))

Immunogen

A synthetic peptide corresponding to a sequence at the middle region of human Calpain-1 (312-326 aa), different from the mouse sequence by two amino acids.

Purification

Immunogen affinity purified.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN₃ preservative.

Storage

Store at 4°C for frequent use.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

BACKGROUND

Calpain-1 catalytic subunit is a protein that in humans is encoded by the CAPN1 gene. Calpain 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, with the differences arising from the L subunits, L1 (CAPN1) and L2. By quantitative RT-PCR, Ueyama et al. (1998) found that expression of calpain-1 and calpain-2 mRNA was significantly increased in muscle biopsy samples derived from 5 men with progressive muscular dystrophy (e.g., DMD; 310200) and 2 men and 3 women with amyotrophic lateral sclerosis (ALS; 105400) compared with controls. Using cDNA clones as probes, Ohno et al. (1989, 1990) assign CANPL1 to chromosome 11.

REFERENCE

1. Aoki K, Imajoh S, Ohno S, Emori Y, Koike M, Kosaki G, Suzuki K (Oct 1986). "Complete amino acid sequence of the large subunit of the low-Ca²⁺-requiring form of human Ca²⁺-activated neutral protease (muCANP) deduced from its cDNA sequence".

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