Product datasheet

Anti-Calpain 1/CAPN1 Antibody

Catalog Number: *PB9330*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-Calpain 1/CAPN1 Antibody
Gene Name	CAPN1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human Calpain 1 recombinant protein (Position: Q396-A555). Human Calpain 1 shares 86% amino acid (aa) sequence identity with both mouse and rat Calpain 1.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	82 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

CAPN1 is also known as CANP or muCL. The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. 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. This gene encodes the large subunit of the ubiquitous enzyme, calpain 1. Several transcript variants encoding two different isoforms have been found for this gene.

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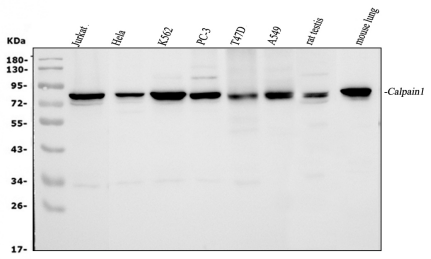
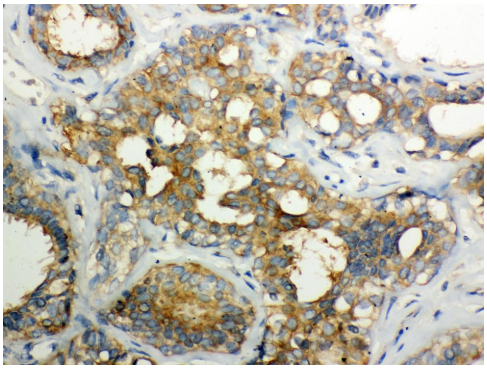
Reference

Anti-Calpain 1/CAPN1 Antibody被引用在2文献中。

Selected Validation Data



Western blot analysis of Calpain 1/CAPN1 using anti-Calpain 1/CAPN1 antibody (PB9330). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: Jurkat whole cell lysates,
Lane 2: Hela whole cell lysates,
Lane 3: K562 whole cell lysates,
Lane 4: PC-3 whole cell lysates,
Lane 5: T47D whole cell lysates,
Lane 6: A549 whole cell lysates,
Lane 7: rat testis tissue lysates,
Lane 8: mouse lung tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Calpain 1/CAPN1 antigen affinity purified polyclonal antibody (PB9330) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Calpain 1/CAPN1 at approximately 82 kDa. The expected band size for Calpain 1/CAPN1 is at 82 kDa.



IHC analysis of Calpain 1/CAPN1 using anti-Calpain 1/CAPN1 antibody (PB9330).
Calpain 1/CAPN1 was detected in a paraffin-embedded section of human mammary cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-Calpain 1/CAPN1 Antibody (PB9330) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

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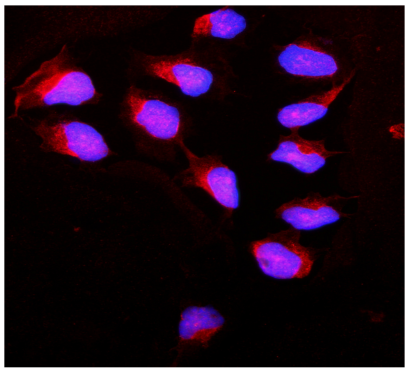
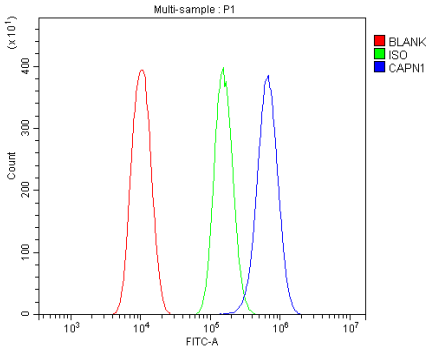


IF analysis of Calpain 1/CAPN1 using anti-Calpain 1/CAPN1 antibody (PB9330).
Calpain 1/CAPN1 was detected in an immunocytochemical section of U2OS cells. The section was incubated with rabbit anti-Calpain 1/CAPN1 Antibody (PB9330) at a dilution of 1:100. Dylight594-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1142) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow cytometry analysis of PC-3 cell(1:100) DyLight 488 conjugated goat anti-rabbit IgG(blue) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).