# Product datasheet Anti-Calpain 1/CAPN1 Antibody (Clone#2E3)

Catalog Number: M01943-4



**BOSTER BIOLOGICAL TECHNOLOGY** 

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Basic Information	
Product Name	Anti-Calpain 1/CAPN1 Antibody (Clone#2E3)
Gene Name	CAPN1
Source	Mouse
Isotype	IgG2b
Species Reactivity	human
Tested Application	WB, FCM
Contents	500 ug/ml antibody with PBS $_{2}$ 0.02% NaN3 , 1 mg 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	protein G purified.
Observed MW	82KD
Dilution Ratios	Western blot(WB): 1:500-2000 Flow cytometry (FCM):1-3 μg/1x10 <sup>6</sup> cells

#### **Storage**

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## **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.

### **Selected Validation Data**

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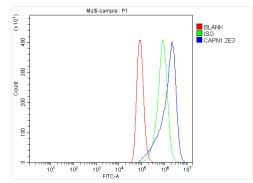


Figure 2. Flow cytometry analysis of A549 cell (1x106) DyLight 488 conjugated goat anti-mouse IgG(blue) was used as secondary antibody. Isotype control antibody (Green line) was mouse IgG DyLight 488. Unlabelled sample (Red line).

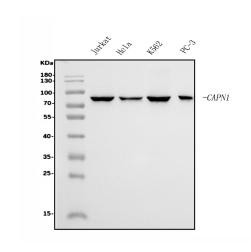


Figure 1. Western blot analysis of anti- Calpain 1 antibody (M01943-4). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human Jurkat whole cell lysates,Lane 2: human Hela whole cell lysates,Lane 3: human K562 whole cell lysates,Lane 4: human PC-3 whole cell lysates.Use mouse anti- Calpain 1 1:1000, probed with a goat anti- mouse IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001). A specific band was detected for Calpain 1 at approximately 82KD. The expected band size for Calpain 1 is at 82KD.