abcam

Product datasheet

Native human Calpain 1 protein (Active) ab91019

**** 1 Abreviews 4 References 2 Images

Description

Product name Native human Calpain 1 protein (Active)

Biological activity >=1,000 units per mg protein.

One unit is defined as the amount of enzyme that hydrolyzes one picomole of Suc-LLVY-AMC per

minute at 25degC.

Purity > 95 % SDS-PAGE.

Expression system Native
Accession P07384

Protein length Full length protein

Animal free No
Nature Native
Species Human
Predicted molecular weight 110 kDa

Specifications

Our **Abpromise guarantee** covers the use of **ab91019** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications Western blot

Functional Studies

SDS-PAGE

Form Liquid

Additional notes Prepared from whole blood shown to be non-reactive for HBsAg, anti-HCV, anti-HBc, and

negative for anti-HIV 1 & 2 by FDA approved tests.

Protein determination: Bradford Assay.

Preparation and Storage

Stability and Storage Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 6.80

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Preservative: 0.14% Imidazole

Constituents: 0.038% EGTA, 0.039% Beta mercaptoethanol, 0.0292% EDTA, 30% Glycerol

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function Calcium-regulated non-lysosomal thiol-protease which catalyze limited proteolysis of substrates

involved in cytoskeletal remodeling and signal transduction.

Tissue specificity Ubiquitous.

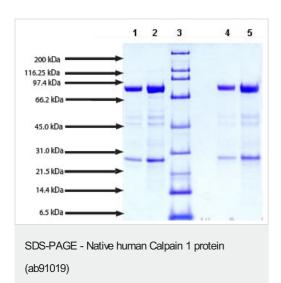
Sequence similarities Belongs to the peptidase C2 family.

Contains 1 calpain catalytic domain.

Contains 4 EF-hand domains.

Cellular localization Cytoplasm. Cell membrane. Translocates to the plasma membrane upon Ca(2+) binding.

Images



SDS-PAGE: 4-12% Bis-Tris NuPAGE gel

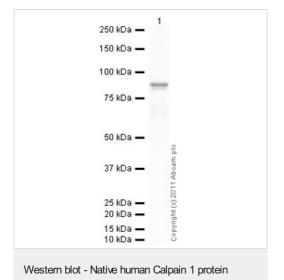
Lane 1: 5 µg ab91019 (reduced /heated).

Lane 2: 10 µg ab91019 (reduced/ heated).

Lane 3: Molecular weight markers.

Lane 4: 5 µg ab91019 (non-reduced/no heat).

Lane 5: 10 µg ab91019 (non-reduced/no heat).



(ab91019)

Anti-Calpain 1 antibody (<u>ab2543</u>) at 1 μg/ml + Native human Calpain 1 protein (Active) (ab91019) at 0.01 μg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Exposure time: 10 seconds

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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