Overview

Product name: Anti-Calpain 1 antibody
Description: Rabbit polyclonal to Calpain 1
Host species: Rabbit
Specificity: This antibody binds to reduced and non reduced Calpain 1. It reacts with Domain IV of Calpain 1, and detects both latent and aminoprocessed (activated) Calpain 1. It but does not cross react with the other calpain family members (Calpain 2, calpain 94, ncl 2, ncl 3, etc.).

Tested applications: Suitable for: WB, IHC (PFA fixed), ICC/IF
Species reactivity: Reacts with: Mouse, Rat, Human
Immunogen: Synthetic peptide based on Domain IV of the large subunit of Human Calpain 1. (Peptide available as ab41300.)
Positive control: SW1353 whole cell lysate (ab7915) can be used as a positive control in WB. Cell lysates from human chondrosarcoma.

Properties

Form: Liquid
Storage buffer: Preservative: 0.05% Sodium azide
 Constituent: 50% Glycerol
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab39170 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>1/1000 - 1/5000. Detects a band of approximately 75 kDa (predicted molecular weight: 82 kDa). 1/1000 - 1/5000. Detects a band of approximately 75 kDa (predicted molecular weight: 82 kDa). Dilution optimised using Chromogenic detection.</td>
<td></td>
</tr>
<tr>
<td>IHC (PFA fixed)</td>
<td>Use at an assay dependent concentration.</td>
<td></td>
</tr>
<tr>
<td>ICC/IF</td>
<td>Use a concentration of 1 µg/ml.</td>
<td></td>
</tr>
</tbody>
</table>

**Target**

**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**

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

**Our Abpromise to you: Quality guaranteed and expert technical support**
- Replacement or refund for products not performing as stated on the datasheet
Valid for 12 months from date of delivery
Response to your inquiry within 24 hours

We provide support in Chinese, English, French, German, Japanese and Spanish
Extensive multi-media technical resources to help you
We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

Guarantee only valid for products bought direct from Abcam or one of our authorized distributors