

Datasheet for ABIN7650439  
**anti-CAPN1 antibody (CF®594)**



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## Overview

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Quantity:    | 100 µL                                                                                                  |
| Target:      | CAPN1                                                                                                   |
| Reactivity:  | Human                                                                                                   |
| Host:        | Mouse                                                                                                   |
| Clonality:   | Monoclonal                                                                                              |
| Conjugate:   | This CAPN1 antibody is conjugated to CF®594                                                             |
| Application: | Immunohistochemistry (IHC), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp)) |

## Product Details

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:         | Calpain 1(CAPN1/1530), CF594 conjugate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Immunogen:       | Recombinant full-length human CAPN1 protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Clone:           | CAPN1-1530                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Isotype:         | IgG1, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Characteristics: | Calpain 1 is an intracellular calcium-dependent protease that cleaves cytoskeletal and sub-membranous proteins. Calpains are non-lysosomal, calcium-activated intracellular cysteine proteases. Calpains mediate specific Ca <sup>2+</sup> - dependent processes including cell fusion, mitosis and meiosis. Calpains are heterodimers of a small regulatory subunit and one of three large catalytic subunits, designated Calpain 1, Calpain 2 and Calpain p94. Calpastatin regulates Calpain by inhibiting both the proteolytic activity of Calpain and its binding to membranes. Calpastatin exists in two types, tissue type and erythrocyte type, resulting from both alternative |

## Product Details

splicing and proteolytic processing. Calpain 1 co-localizes with human leukocyte antigen-DR (HLA-DR) on activated microglia in the aging brain. Calpain influences the process of spermatogenesis and the events preceding fertilization, such as the acrosome reaction. Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

## Target Details

|                   |                                                                                                                                                                                                                            |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | CAPN1                                                                                                                                                                                                                      |
| Alternative Name: | Calpain 1                                                                                                                                                                                                                  |
| Background:       | Synonyms: Calpain 1, Calcium dependent protease small subunit 1, Calcium-activated neutral proteinase 1, Calpain 1 large subunit, Calpain mu-type, Calpain-1 catalytic subunit, CANP1, CANPL1, CAPN1<br>Gene Symbol: CAPN1 |
| Molecular Weight: | ~80 kDa                                                                                                                                                                                                                    |
| Gene ID:          | 823                                                                                                                                                                                                                        |
| UniProt:          | <a href="#">P07384</a>                                                                                                                                                                                                     |

## Application Details

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|--------------------|--------------------------------------------------------------------|
| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Comment:           | Positive Control: HeLa cells. Skin or Tonsil.                      |
| Restrictions:      | For Research Use only                                              |

## Handling

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Format:            | Liquid                                                                        |
| Concentration:     | 0.1 mg/mL                                                                     |
| Buffer:            | PBS, 0.1 % BSA, 0.05 % azide                                                  |
| Preservative:      | Sodium azide                                                                  |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which |

Handling

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|                  |                                                                                                                                      |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------|
|                  | should be handled by trained staff only.                                                                                             |
| Handling Advice: | Protect from light                                                                                                                   |
| Storage:         | 4 °C                                                                                                                                 |
| Storage Comment: | Stable at room temperature or 37°C for 7 days.<br>Protect from light<br>Store at 2 to 8°C. Protect fluorescent conjugates from light |
| Expiry Date:     | 24 months                                                                                                                            |