

# KD-Validated Anti-Calpain 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1193

## Product Information

|                          |                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Application</b>       | WB, FC, ICC                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Primary Accession</b> | <a href="#">P07384</a>                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Reactivity</b>        | Rat, Human, Mouse                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Clonality</b>         | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Isotype</b>           | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Clone Names</b>       | 23GB 3290                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Calculated MW</b>     | 81890                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Gene Name</b>         | CAPN1                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Aliases</b>           | CAPN1; Calpain 1; CANPL1; MuCANP; CANP; Cell Proliferation-Inducing Gene 30 Protein; Calcium-Activated Neutral Proteinase 1; Calpain 1, (Mu/I) Large Subunit; Calpain-1 Catalytic Subunit; Calpain-1 Large Subunit; Micromolar-Calpain; Calpain Mu-Type; EC 3.4.22.52; CANP; MuCL; Cell Proliferation-Inducing Protein 30; Calpain, Large Polypeptide L1; EC 3.4.22; MUCANP; CANP1; SPG76; MUCL |
| <b>Immunogen</b>         | A synthesized peptide derived from human Calpain 1 catalytic subunit                                                                                                                                                                                                                                                                                                                            |

## Additional Information

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| <b>Gene ID</b>     | 823                                                                                                                                                                                                                                                                        |
| <b>Other Names</b> | Calpain-1 catalytic subunit, 3.4.22.52, Calcium-activated neutral proteinase 1, CANP 1, Calpain mu-type, Calpain-1 large subunit, Cell proliferation-inducing gene 30 protein {ECO:0000303 Ref.3}, Micromolar-calpain, muCANP, CAPN1 ( <a href="#">HGNC:1476</a> ), CANPL1 |

## Protein Information

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| <b>Name</b>              | CAPN1 ( <a href="#">HGNC:1476</a> )                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>          | CANPL1                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Function</b>          | Calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction (PubMed: <a href="#">19617626</a> , PubMed: <a href="#">21531719</a> , PubMed: <a href="#">2400579</a> ). Proteolytically cleaves CTBP1 at 'Asn-375', 'Gly-387' and 'His-409' (PubMed: <a href="#">23707407</a> ). Cleaves and activates caspase-7 (CASP7) (PubMed: <a href="#">19617626</a> ). |
| <b>Cellular Location</b> | Cytoplasm. Cell membrane. Note=Translocates to the plasma membrane upon Ca(2+) binding. In granular keratinocytes and in lower corneocytes, colocalizes with FLG and FLG2 (PubMed:21531719)                                                                                                                                                                                                                                                                  |

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| <b>Tissue Location</b> | Ubiquitous. |
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