

## Anti-Calpain 2 antibody

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|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>        | Rabbit polyclonal to Calpain 2.                                                                                                                                            |
| <b>Model</b>              | STJ91983                                                                                                                                                                   |
| <b>Host</b>               | Rabbit                                                                                                                                                                     |
| <b>Reactivity</b>         | Human, Mouse, Rat                                                                                                                                                          |
| <b>Applications</b>       | ELISA, IHC                                                                                                                                                                 |
| <b>Immunogen</b>          | Synthesized peptide derived from human Calpain- $\gamma$ 2.                                                                                                                |
| <b>Immunogen Region</b>   | Internal                                                                                                                                                                   |
| <b>Gene ID</b>            | <a href="#">824</a>                                                                                                                                                        |
| <b>Gene Symbol</b>        | <a href="#">CAPN2</a>                                                                                                                                                      |
| <b>Dilution range</b>     | IHC 1:100-1:300ELISA 1:40000                                                                                                                                               |
| <b>Specificity</b>        | Calpain- $\gamma$ 2 Polyclonal Antibody detects endogenous levels of Calpain- $\gamma$ 2 protein.                                                                          |
| <b>Tissue Specificity</b> | Ubiquitous.                                                                                                                                                                |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                      |
| <b>Note</b>               | For Research Use Only (RUO).                                                                                                                                               |
| <b>Protein Name</b>       | Calpain-2 catalytic subunit Calcium-activated neutral proteinase 2 CANP 2 Calpain M-type Calpain large polypeptide L2 Calpain-2 large subunit Millimolar-calpain M-calpain |
| <b>Molecular Weight</b>   | 80.009 kDa                                                                                                                                                                 |

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| <b>Clonality</b>             | Polyclonal                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Conjugation</b>           | Unconjugated                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Isotype</b>               | IgG                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Formulation</b>           | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                       |
| <b>Concentration</b>         | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage Instruction</b>   | Store at -20°C, and avoid repeat freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                          |
| <b>Database Links</b>        | <a href="#">HGNC:14790MIM:114230</a>                                                                                                                                                                                                                                                                                                                                          |
| <b>Alternative Names</b>     | Calpain-2 catalytic subunit Calcium-activated neutral proteinase 2 CANP 2<br>Calpain M-type Calpain large polypeptide L2 Calpain-2 large subunit<br>Millimolar-calpain M-calpain                                                                                                                                                                                              |
| <b>Function</b>              | Calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction. Proteolytically cleaves MYOC at 'Arg-226' . Proteolytically cleaves CPEB3 following neuronal stimulation which abolishes CPEB3 translational repressor activity, leading to translation of CPEB3 target mRNAs . |
| <b>Cellular Localization</b> | Cytoplasm. Cell membrane. Translocates to the plasma membrane upon Ca(2+) binding.                                                                                                                                                                                                                                                                                            |

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