

# Calpain-2 Polyclonal Antibody

**CATALOG #:** 3372-100

**AMOUNT:** 100 µl

**LOT #:** \_\_\_\_\_

**HOST:** Rabbit

**IMMUNOGEN:** Synthetic peptide mapping to the C-terminus of the domain III of human Calpain-2 large subunit

**SPECIES REACTIVITY:** human, mouse, rat

**FORMULATION:**

100 µl affinity purified rabbit polyclonal anti-calpain-2 antibody in phosphate-buffered saline (PBS) containing 50% glycerol, 1% BSA, and 0.02% thimerosal.

**STORAGE CONDITIONS:**

Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

**DESCRIPTION:**

Calpains are cytosolic, calcium-dependent, cysteine proteases that are ubiquitously expressed in mammalian and avian tissues. Calpain-1 and 2 consist of a common small subunit and a large variable subunit. Domains in the large subunit include the amino terminal domain I, the proteinase domain II, domain III, and the EF-hand domain IV. Type I calpain requires micromolar amounts of calcium, while type II calpain requires millimolar amounts of calcium.

**SPECIFICITY:**

The anti-calpain-2 antibody recognizes the 80 kDa Calpain-2. It does not cross-react with other calpains.

**APPLICATION:**

The antibody can be used for Western blotting (1:200-1000 dilutions). However, the optimal concentrations should be determined individually.

**USAGE:** For Research Use Only. Not to be used in humans.

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