

## **CAPN3 Antibody (C-term)**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP9817b

## **Specification**

## **CAPN3 Antibody (C-term) - Product Information**

Application FC, WB, IHC-P,E

**Primary Accession** P20807 Other Accession O9GLG7 Reactivity Human Predicted Monkey Host Rabbit Clonality **Polyclonal** Isotype Rabbit IgG Calculated MW 94254 Antigen Region 603-632

## CAPN3 Antibody (C-term) - Additional Information

#### Gene ID 825

### **Other Names**

Calpain-3, Calcium-activated neutral proteinase 3, CANP 3, Calpain L3, Calpain p94, Muscle-specific calcium-activated neutral protease 3, New calpain 1, nCL-1, CAPN3, CANP3, CANPL3, NCL1

## Target/Specificity

This CAPN3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 603-632 amino acids from the C-terminal region of human CAPN3.

## **Dilution**

FC~~1:10~50 WB~~1:1000 IHC-P~~1:50~100

E~~Use at an assay dependent concentration.

#### **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

## **Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

### **Precautions**

CAPN3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## **CAPN3 Antibody (C-term) - Protein Information**



Name CAPN3 (HGNC:1480)

Synonyms CANP3, CANPL3, NCL1

**Function** Calcium-regulated non-lysosomal thiol-protease. Proteolytically cleaves CTBP1 at 'His-409'. Mediates, with UTP25, the proteasome-independent degradation of p53/TP53 (PubMed:23357851, PubMed:27657329).

**Cellular Location** Cytoplasm. Nucleus, nucleolus

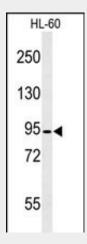
**Tissue Location**Isoform I is skeletal muscle specific.

# **CAPN3 Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# CAPN3 Antibody (C-term) - Images

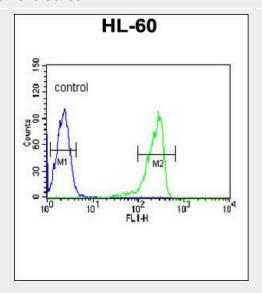


Western blot analysis of CAPN3 Antibody (C-term) (Cat. #AP9817b) in HL-60 cell line lysates (35ug/lane). CAPN3 (arrow) was detected using the purified Pab.





CAPN3 Antibody (C-term) (Cat. #AP9817b) IHC analysis in formalin fixed and paraffin embedded skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CAPN3 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



CAPN3 Antibody (C-term) (Cat. #AP9817b) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## CAPN3 Antibody (C-term) - Background

Calpain, a heterodimer consisting of a large and a small subunit, is a major intracellular protease, although its function has not been well established. This gene encodes a muscle-specific member of the calpain large subunit family that specifically binds to titin. Mutations in this gene are associated with limb-girdle muscular dystrophies type 2A.

## CAPN3 Antibody (C-term) - References

Charlton, R., et al. Neuromuscul. Disord. 19(7):449-457(2009) Moretti, D., et al. Carcinogenesis 30(6):960-967(2009) Enjuanes, A., et al. Cancer Res. 68(24):10178-10186(2008) Beckmann, J.S., et al. Neuromuscul. Disord. 18(12):913-921(2008) Shirafuji, T., et al. Rinsho Shinkeigaku 48(9):651-655(2008) Diaz, B.G., et al. J. Biol. Chem. 279(26):27656-27666(2004)