

**DATASHEET**

**Calpain 1 Rabbit Polyclonal Antibody**

CAT. NO. APA12551

**KEY FEATURES**

Target	Calpain 1	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

**BACKGROUND**

Calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction . Proteolytically cleaves CTBP1 at 'Asn-375', 'Gly-387' and 'His-409' . Cleaves and activates caspase-7 (CASP7) .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
IHC	1:50 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Rabbit polyclonal antibody to Calpain 1
Specificity	Recognizes endogenous levels of Calpain 1 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human Calpain 1
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 81 kD; Observed: 75-80 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	CANPL1; Calpain-1 catalytic subunit; Calcium-activated neutral proteinase 1; CANP 1; Calpain mu-type; Calpain-1 large subunit; Cell proliferation-inducing gene 30 protein; Micromolar-calpain; muCANP
Gene Symbol	CAPN1
Entrez Gene	823(Human); 12333(Mouse); 29153(Rat)
SwissProt	P07384(Human); O35350(Mouse); P97571(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

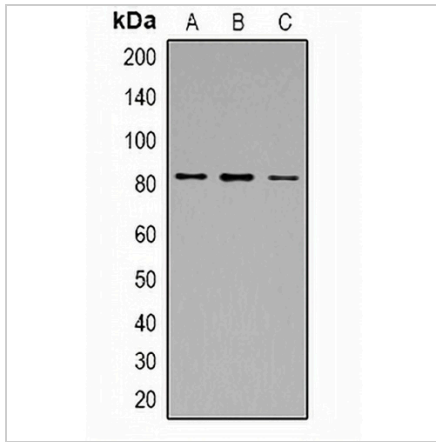
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

**DATASHEET**

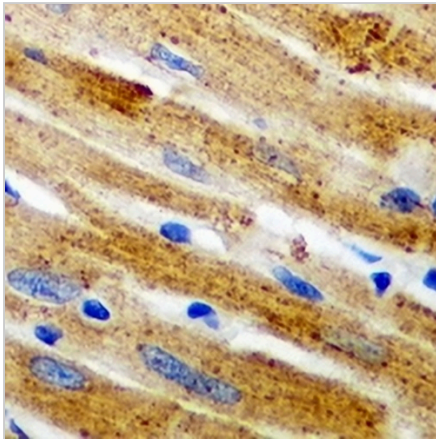
**Calpain 1 Rabbit Polyclonal Antibody**

CAT. NO. APA12551

**DATA**



Western blot analysis of Calpain 1 expression in A549 (A), MCF7 (B), Jurkat (C) whole cell lysates. (Predicted band size: 81 kD; Observed band size: 75-80 kD)



Immunohistochemical analysis of Calpain 1 staining in mouse heart formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.