

Rabbit Calpain 2 Polyclonal Antibody | anti-CAPN2 antibody

Phospho-Calpain 2 (Ser50) Antibody

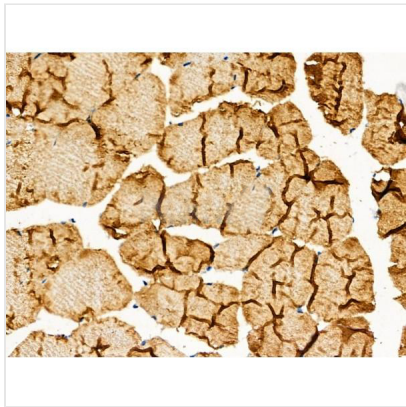
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329791	Rabbit	Human, Mouse, Rat Predicted Reactivity: Bovine (90%), Sheep (90%), Chicken (80%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

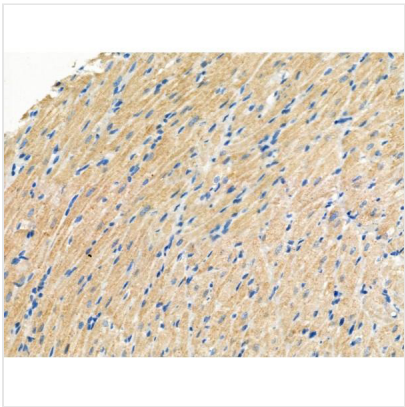
Calpain 2; Polyclonal Antibody; Phospho-Calpain 2 (Ser50) Antibody; Calcium activated neutral proteinase 2; Calcium activated neutral proteinase; Calcium-activated neutral protease 2; catalytic subunit; Calcium-activated neutral proteinase 2; CALP80; Calpain 2 (m/II) large subunit; Calpain 2 catalytic subunit; Calpain 2 large catalytic subunit; Calpain 2 large subunit; large [catalytic] subunit; Calpain large polypeptide L2; Calpain M type; Calpain M-type; Calpain-2 catalytic subunit; Calpain-2 large subunit; Calpain2; CAN2_HUMAN; CANP 2; CANP L2; CANP2; CANPL 2; CANPL2; CANPml; Capa2; CAPN 2; CAPN2; FLJ39928; M calpain; M calpin; M type; M-calpain; mCANP; Millimolar calpain; Millimolar-calpain; anti-CAPN2 antibody

PRODUCT SPECIFICATIONS

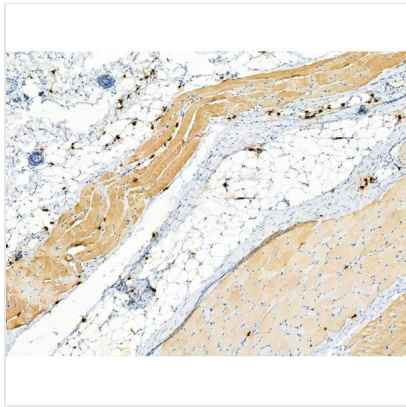
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Bovine (90%), Sheep (90%), Chicken (80%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-Calpain 2 (Ser50) Antibody detects endogenous levels of Calpain 2 only when phosphorylated at Ser50. Tissue Specificity: Ubiquitous.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CAPN2 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Calpain 2 around the phosphorylation site of Ser50.
Conjugation	Unconjugated
Fragment	Fab fragment
Subunit Structure	Forms a heterodimer with a small (regulatory) subunit (CAPNS1). Interacts with CPEB3; this leads to cleavage of CPEB3.
Similarity	Belongs to the peptidase C2 family.
Subcellular Location	Cytoplasm. Cell membrane. Note: Translocates to the plasma membrane upon Ca (2+) binding.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



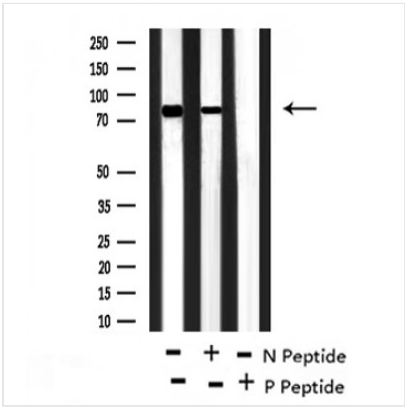
IHC (Immunohistochemistry)
At 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



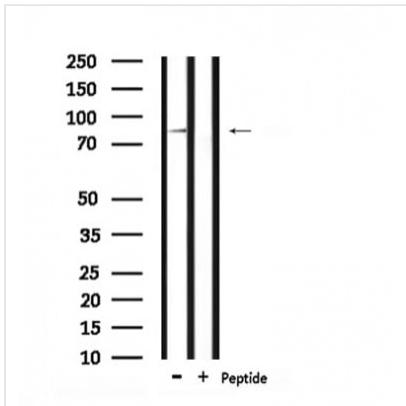
IHC (Immunohistochemistry)
At 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Rat skin tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of Calpain 2 (Phospho-Ser50) using Insulin treated Jurkat whole cell lysates. -/+ means absence or presence of N peptide (non-phospho peptide) and P peptide (phospho peptide).



WB (Western Blot)
Western blot analysis of extracts from mouse liver, using Calpain 2 (Phospho-Ser50) Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CAPN2 antibody	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 (By similarity).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	225703100
NCBI GeneID	824
NCBI Accession #	NP_001139540.1
NCBI GenBank Nucleotide #	NM_001146068.1
UniProt Accession #	P17655; Q16738; Q6PJT3; Q8WU26; Q9HBB1; A6NDG7; B7ZA96; E7ES58
Molecular Weight	79,995 Da
NCBI Official Full Name	calpain-2 catalytic subunit isoform 2
NCBI Official Synonym Full Names	calpain 2, (m/II) large subunit
NCBI Official Symbol	CAPN2
NCBI Official Synonym Symbols	CANP2; mCANP; CANPL2; CANPml
NCBI Protein Information	calpain-2 catalytic subunit; CANP 2; M-calpain; calpain M-type; millimolar-calpain; calpain-2 large subunit; calpain 2, large subunit; calpain large polypeptide L2; calpain, large polypeptide L2; calpain 2, large [catalytic] subunit; calcium-activated neu
UniProt Protein Name	Calpain-2 catalytic subunit
UniProt Gene Name	CAPN2
UniProt Synonym Gene Names	CANPL2; CANP 2; M-calpain
UniProt Entry Name	CAN2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/calpain-2-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329791>