

Rabbit CAPN1 Polyclonal Antibody | anti-CAPN1 antibody

CAPN1 Antibody

CATALOG # AAA304022	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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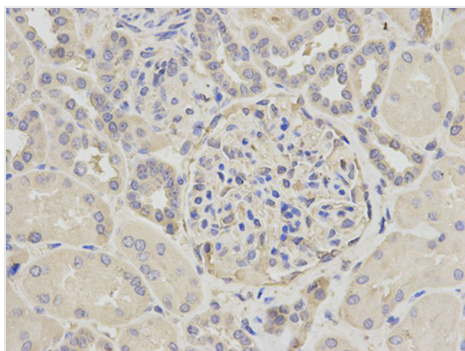
PRODUCT SYNONYMS

CAPN1; Polyclonal Antibody; CAPN1 Antibody; CANP; CANP1; CANPL1; muCANP; anti-CAPN1 antibody

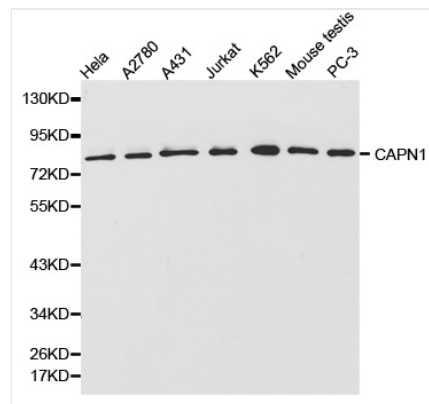
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	The antibody detects endogenous level of total CAPN1 protein.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	714
Applicable Applications for anti-CAPN1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human CAPN1.
Target Name	CAPN1
Preparation and Storage	Store at -20 degree C

IMAGES


IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human kidney using CAPN1 antibody at dilution of 1:200 (400x lens).


WB (Western Blot)

Western blot analysis of extracts of various cell lines, using CAPN1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CAPN1 antibody	Calpain is a calcium-dependent thiol proteinase that is functionally active as a heterodimer composed of a small regulatory subunit and one of at least two large catalytic subunits (calpain 1 or calpain 2). In vitro, calpain 1 (mu-calpain) requires micromolar levels of calcium, while calpain 2 (M-calpain) requires millimolar levels of calcium for activation. The regulation of calpain in vivo is the subject of many current studies, which suggest that proteolytic activity is regulated post-transcriptionally by mechanisms such as calcium requirements, subcellular localization of the heterodimer, phosphorylation via the EGFR-Erk signaling cascade, endogenous inhibitors (calpastatin) and autoproteolytic cleavage (1). Calpastatin negatively regulates autoproteolytic cleavage of calpain 1 between Gly27 and Leu28 (2). Calpain influences cell migration by modifying rather than degrading its substrates responsible for cell adhesion and cytoskeletal arrangement. Control of calpain activity has caught the attention of drug development since limiting its activity could mute invasiveness of tumors or chronic inflammation (1).
Product Categories/Family for anti-CAPN1 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	311893363
NCBI GeneID	823
NCBI Accession #	NP_001185797.1
NCBI GenBank Nucleotide #	NM_001198868.1
UniProt Accession #	P07384; Q2TTR0; Q6DHV4
Molecular Weight	81,890 Da
NCBI Official Full Name	calpain-1 catalytic subunit
NCBI Official Synonym Full Names	calpain 1, (mu/I) large subunit
NCBI Official Symbol	CAPN1
NCBI Official Synonym Symbols	CANP; muCL; CANP1; CANPL1; muCANP
NCBI Protein Information	calpain-1 catalytic subunit
UniProt Protein Name	Calpain-1 catalytic subunit
UniProt Gene Name	CAPN1
UniProt Synonym Gene Names	CANPL1; CANP 1; muCANP
UniProt Entry Name	CAN1_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/capn1-antibody-immunohistochemistry-western-blot-elisa/304022>