

Rabbit anti-Human CAPNS1 Polyclonal Antibody | anti-CAPNS1 antibody

CAPNS1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327350	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

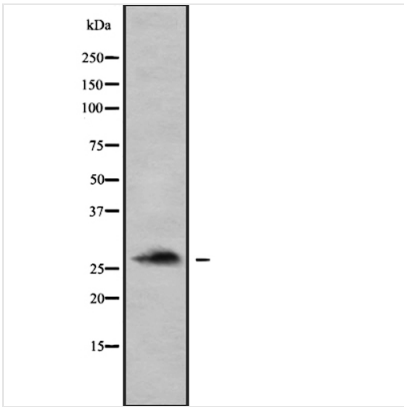
PRODUCT SYNONYMS

CAPNS1; Polyclonal Antibody; CAPNS1 Antibody; 30K; Calcium activated neutral proteinase; Calcium activated neutral proteinase small subunit; Calcium dependent protease small subunit 1; Calcium dependent protease small subunit; Calcium-activated neutral proteinase small subunit; Calcium-dependent protease small subunit 1; Calcium-dependent protease small subunit; Calpain 4; Calpain 4 small subunit (30K); Calpain 4 small subunit; Calpain regulatory subunit; Calpain small polypeptide; Calpain small subunit 1; Calpain4; CalpainS1; CANP; CANP small subunit; CANPS; CAPN 4; CAPN S1; CAPN4; CAPNS 1; CAPNS; Capns1; CDPS; CPNS1_HUMAN; CSS 1; CSS1; anti-CAPNS1 antibody

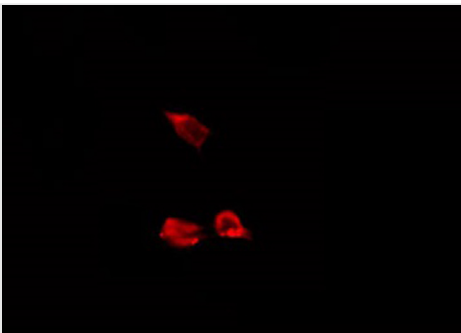
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	CAPNS1 antibody detects endogenous levels of total CAPNS1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	268
Applicable Applications for anti-CAPNS1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CAPNS1
Subcellular Location	Cytoplasm. Cell Membrane. Translocates to the plasma membrane upon calcium binding.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (92%), Horse (100%), Sheep (92%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of CAPNS1 using HeLa whole lysates.



IF (Immunofluorescence)
AAA327350 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CAPNS1 antibody	Function: Regulatory subunit of the calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction. Subunit Structure: Homodimer or heterodimer of a large (catalytic) and a small (regulatory) subunit. In presence of calcium, the heterodimer dissociates (By similarity). Similarity: The contact of the 5th EF-hand domain from each monomer allows the formation of the homodimer and also appears to mediate the contact between the large catalytic subunit and small regulatory subunit for the formation of the heterodimer.EF-hand domains are paired. EF-hand 1 is paired with EF-hand 2 and EF-hand 3 is paired with EF-hand 4. The fifth EF-hand domain, left unpaired, does not bind the calcium but is responsible of the dimerization by EF-embrace. The first four EF-hand domains bind calcium, however it is not sure if the binding of EF-hand 4 to calcium is physiologically relevant.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	51599151
NCBI GeneID	826
NCBI Accession #	NP_001003962.1
NCBI GenBank Nucleotide #	NM_001003962.2
UniProt Accession #	P04632; Q8WTX3; Q96EW0; A8K0P1
Molecular Weight	Observed: 28 kDa Predicted: 29 kDa
NCBI Official Full Name	calpain small subunit 1 isoform 1
NCBI Official Synonym Full Names	calpain small subunit 1
NCBI Official Symbol	CAPNS1
NCBI Official Synonym Symbols	CANP; CDPS; CSS1; CANPS; CAPN4; CALPAIN4
NCBI Protein Information	calpain small subunit 1
UniProt Protein Name	Calpain small subunit 1
UniProt Gene Name	CAPNS1
UniProt Synonym Gene Names	CAPN4; CAPNS; CSS1; CANP small subunit; CDPS

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/capns1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/327350>