

Mouse anti-Human Calpain 1 Monoclonal Antibody | anti-CAPN1 antibody

Calpain 1

CATALOG # AAA215268	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA
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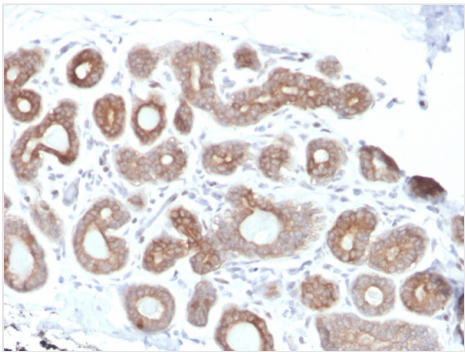
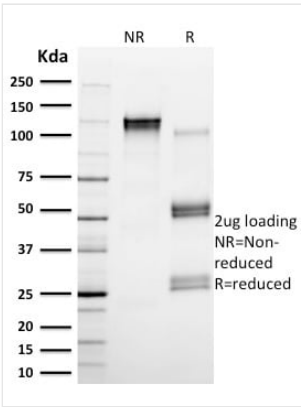
PRODUCT SYNONYMS

Calpain 1; Monoclonal Antibody; Calcium dependent protease small subunit 1; Calcium-activated neutral proteinase 1; Calpain 1 large subunit; Calpain mu-type; Calpain regulatory subunit; Calpain small subunit 1; Calpain; large polypeptide L1; Calpain-1 catalytic subunit; CANP small subunit; CANP1; CANPL1; CAPN1; Cell proliferation-inducing gene 30 protein; Micromolar-calpain; Mu Calpain; anti-CAPN1 antibody

PRODUCT SPECIFICATIONS

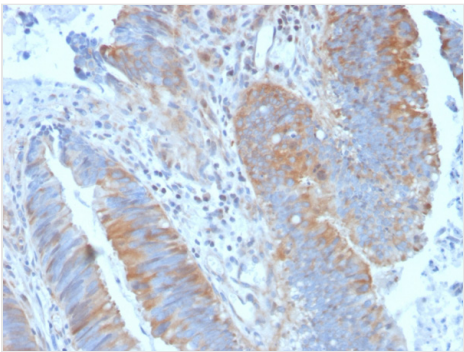
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	CAPN1/1530
Specificity	Calpain 1 is an intracellular calcium-dependent protease that cleaves cytoskeletal and sub-membranous proteins. Calpains are non-lysosomal, calcium-activated intracellular cysteine proteases. Calpains mediate specific Ca ²⁺ -dependent processes including cell fusion, mitosis and meiosis. Calpains are heterodimers of a small regulatory subunit and one of three large catalytic subunits, designated Calpain 1, Calpain 2 and Calpain p94. Calpastatin regulates Calpain by inhibiting both the proteolytic activity of Calpain and its binding to membranes. Calpastatin exists in two types, tissue type and erythrocyte type, resulting from both alternative splicing and proteolytic processing. Calpain 1 co-localizes with human leukocyte antigen-DR (HLA-DR) on activated microglia in the aging brain. Calpain influences the process of spermatogenesis and the events preceding fertilization, such as the acrosome reaction.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	713
Applicable Applications for anti-CAPN1 antibody	IHC (Immunohistochemistry), ELISA
Positive Control	HeLa cells. Skin or Tonsil.
Immunogen	Recombinant full-length human CAPN1 protein
Cellular Localization	Cytoplasm and Cell Surface
Hu-chromosome Location	11q13.1
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with Calpain 1 Mouse Monoclonal Antibody (CAPN1/1530).

SDS-PAGE
SDS-PAGE Analysis Purified Calpain 1 Mouse Monoclonal Antibody (CAPN1/1530).
Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with Calpain 1 Mouse Monoclonal Antibody (CAPN1/1530).

ADDITIONAL INFORMATION

References	Murachi, T. 1984. Biochem. Soc. Symp. 45: 149-167.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	119594774
NCBI GeneID	823
UniProt Accession #	P07384
Molecular Weight	80kDa
NCBI Official Full Name	calpain 1, (mu/l) large subunit, isoform CRA_c
NCBI Official Synonym Full Names	calpain 1
NCBI Official Symbol	CAPN1
NCBI Official Synonym Symbols	CANP; muCL; CANP1; SPG76; 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

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/monoclonal/calpain-1-antibody-clone-capn1-1530-immunohistochemistry-elisa/215268>