

Mouse anti-Human Calpain 2 Monoclonal Antibody | anti-CAPN2 antibody

Anti-Calpain 2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA265995	Mouse	Human	Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

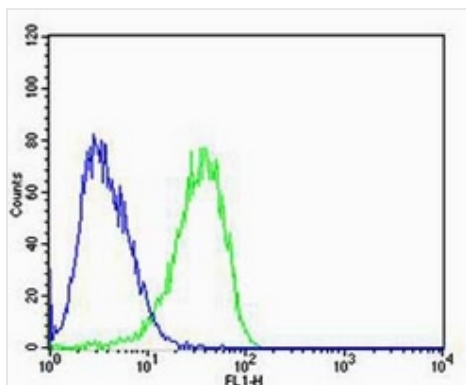
PRODUCT SYNONYMS

Calpain 2; Monoclonal Antibody; Anti-Calpain 2 Antibody; anti-CAPN2 antibody

PRODUCT SPECIFICATIONS

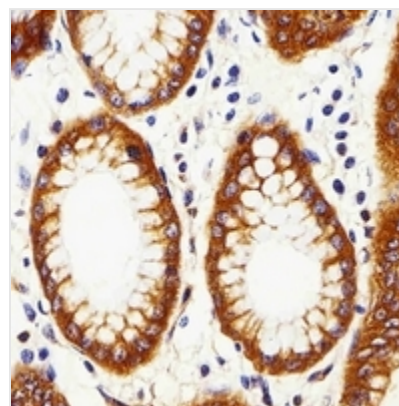
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2b
Specificity	Recognizes endogenous levels of Calpain 2 protein.
Purity/Purification	This antibody is purified through a protein G column.
Form/Format	Mouse IgG2b. Liquid in PBS, pH7.3, 30% glycerol, and 0.01% sodium azide.
Applicable Applications for anti-CAPN2 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	KLH-conjugated synthetic peptide of human Calpain 2. The exact sequence is proprietary.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



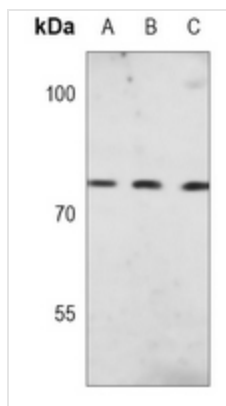
FCM/FACS (Flow Cytometry)

Flow cytometric analysis of U87MG cells using Anti-Calpain 2 Antibody. The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody at 37 °C for 60 min. The secondary antibody Goat Anti-Mouse IgG (H&L) - AF488 was incubated at 37 °C for 40 min. Isotype control antibody (blue line) was used under the same condition.



IHC (Immunohistochemistry)

Immunohistochemical analysis of Calpain 2 staining in human stomach 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.



WB (Western Blot)

Western blot analysis of Calpain 2 expression in A549 (A), A431 (B), SKBR3 (C) whole cell lysates. (Predicted band size: 79 kD; Observed band size: 80 kD)

ADDITIONAL INFORMATION

Related Product Information for anti-CAPN2 antibody	Mouse monoclonal antibody to Calpain 2
Product Categories/Family for anti-CAPN2 antibody	Primary Antibodies

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.