

ARG55063 anti-Calpain 2 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes Calpain 2
Tested Reactivity	Hu, Ms
Tested Application	FACS, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	1381CT669.7.66.71
Isotype	IgG2b
Target Name	Calpain 2
Species	Human
Immunogen	KLH-conjugated synthetic peptide of Human Calpain 2.
Conjugation	Un-conjugated
Alternate Names	CANP2; Calpain-2 large subunit; Calpain-2 catalytic subunit; EC 3.4.22.53; Millimolar-calpain; M-calpain; mCANP; Calpain large polypeptide L2; Calpain M-type; CANP 2; CANPL2; CANPml; Calcium-activated neutral proteinase 2

Application Instructions

Application table	Application	Dilution
	FACS	1:100
	IHC-P	Assay-dependent
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	A549	

Properties

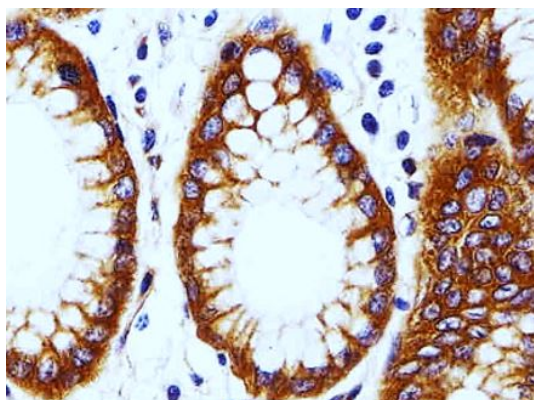
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

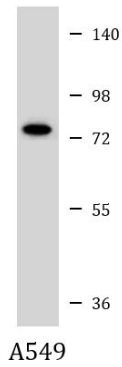
Database links	GeneID: 12334 Mouse GeneID: 824 Human Swiss-port # O08529 Mouse Swiss-port # P17655 Human
Gene Symbol	CAPN2
Gene Full Name	calpain 2, (m/II) large subunit
Background	The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 2. Multiple heterogeneous transcriptional start sites in the 5' UTR have been reported. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]
Function	Calcium-regulated non-lysosomal thiol-protease which catalyze limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction. Proteolytically cleaves MYOC at 'Arg-226' (PubMed:17650508). [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Metabolism antibody; Signaling Transduction antibody
Calculated Mw	80 kDa
Cellular Localization	Cytoplasm. Cell membrane. Note=Translocates to the plasma membrane upon Ca(2+) binding

Images



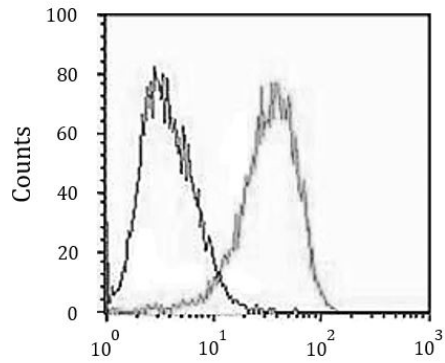
ARG55063 anti-Calpain 2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human stomach tissue stained with ARG55063 anti-Calpain 2 antibody at 1:25 dilution.



ARG55063 anti-Calpain 2 antibody WB image

Western blot: 35 μ g of A549 cell lysate stained with ARG55063 anti-Calpain 2 antibody at 1:1000 dilution.



ARG55063 anti-Calpain 2 antibody FACS image

Flow Cytometry: U-87 MG cells stained with ARG55063 anti-Calpain 2 antibody (right histogram) at 1:100 dilution or isotype control antibody (left histogram), followed by incubation with Alexa Fluor® 488 labelled secondary antibody.