

ARG55065 anti-Calpain 6 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes Calpain 6
Tested Reactivity	Ms
Tested Application	FACS, WB
Host	Mouse
Clonality	Monoclonal
Clone	1395CT446.22.5
Isotype	IgG1
Target Name	Calpain 6
Species	Human
Immunogen	Recombinant protein of Human Calpain 6.
Conjugation	Un-conjugated
Alternate Names	DJ914P14.1; CANPX; CalpM; Calpain-6; Calpain-like protease X-linked; Calpamodulin; CAPNX

Application Instructions

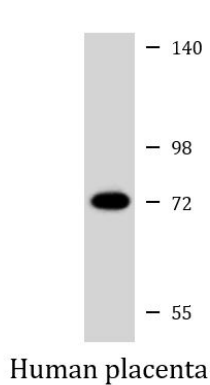
Application table	Application	Dilution
	FACS	Assay-dependent
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Human placenta	

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.

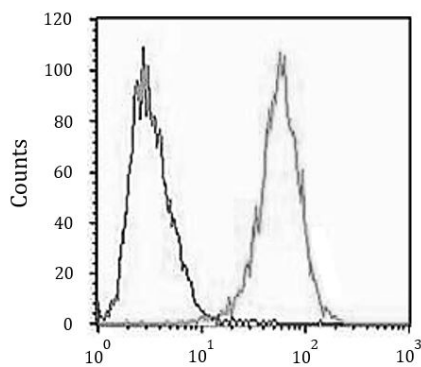
Database links	GeneID: 12338 Mouse Swiss-port # O35646 Mouse
Gene Symbol	CAPN6
Gene Full Name	calpain 6
Background	Calpains are ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. The large subunit possesses a cysteine protease domain, and both subunits possess calcium-binding domains. Calpains have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. The protein encoded by this gene is highly expressed in the placenta. Its C-terminal region lacks any homology to the calmodulin-like domain of other calpains. The protein lacks critical active site residues and thus is suggested to be proteolytically inactive. The protein may play a role in tumor formation by inhibiting apoptosis and promoting angiogenesis. [provided by RefSeq, Nov 2009]
Function	Microtubule-stabilizing protein that may be involved in the regulation of microtubule dynamics and cytoskeletal organization. May act as a regulator of RAC1 activity through interaction with ARHGEF2 to control lamellipodial formation and cell mobility. Does not seem to have protease activity as it has lost the active site residues (By similarity). [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Signaling Transduction antibody
Calculated Mw	75 kDa
Cellular Localization	Cytoplasm, perinuclear region. Cytoplasm, cytoskeleton, spindle. Note=During mitose associated with the mitotic spindle. At telophase colocalized to the midbody spindle

Images



ARG55065 anti-Calpain 6 antibody WB image

Western blot: 20 µg of Human placenta lysate stained with ARG55065 anti-Calpain 6 antibody at 1:1000 dilution.



ARG55065 anti-Calpain 6 antibody FACS image

Flow Cytometry: A549 cells stained with ARG55065 anti-Calpain 6 antibody (right histogram) at 1:25 dilution or isotype control antibody (left histogram), followed by incubation with Alexa Fluor® 488 labelled secondary antibody.