

ARG55053 anti-Calpain 6 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Calpain 6
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Calpain 6
Species	Human
Immunogen	Synthetic peptide (18 aa) within the last 50 aa of Human Calpain 6 protein.
Conjugation	Un-conjugated
Alternate Names	DJ914P14.1; CANPX; CalpM; Calpain-6; Calpain-like protease X-linked; Calpamodulin; CAPNX

Application Instructions

Application table	Application	Dilution
	ELISA	Assay-dependent
	ICC/IF	20 µg/ml
	IHC-P	Assay-dependent
	WB	0.5 - 1 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Rat Lung Tissue Lysate	

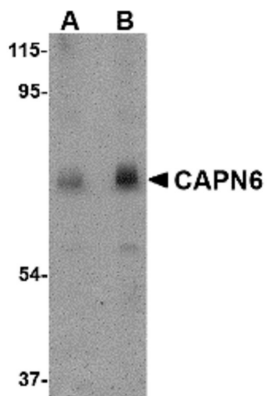
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Concentration	1 mg/ml
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.

Bioinformation

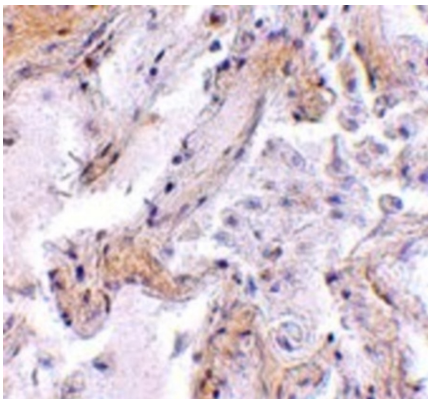
Gene Symbol	CAPN6
Gene Full Name	calpain 6
Background	CAPN6 Antibody: Calpains make up a ubiquitously expressed, well-conserved family of calcium-dependent cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. This large subunit 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. Calpain 6 (CAPN6) is most similar to Calpain 5; the C-terminal region of CAPN6 lacks homology to the calmodulin-like domain of other vertebrate calpains. CAPN6 is thought to be involved in the regulation of microtubule dynamics and cytoskeletal organization. CAPN6 has also been recently identified as an HIV dependency factor (HDF), suggesting that CAPN6 may be an important drug target in HIV treatment.
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

Images



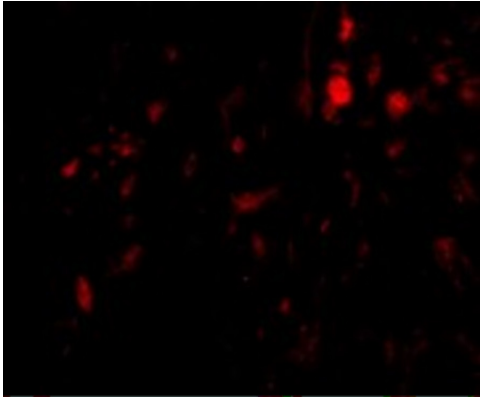
ARG55053 anti-Calpain 6 antibody WB image

Western blot: rat lung tissue lysate stained with ARG55053 anti-Calpain 6 antibody at (A) 0.5 and (B) 1 ug/ml dilution.



ARG55053 anti-Calpain 6 antibody IHC image

Immunohistochemistry: CAPN6 in human lung tissue stained with ARG55053 anti-Calpain 6 antibody at 2.5 ug/ml dilution.



ARG55053 anti-Calpain 6 antibody ICC/IF image

Immunofluorescence: Human Lung cells stained with ARG55053 anti-Calpain 6 antibody at 20 ug/ml dilution.