

ARG66328 anti-Caspase 3 antibody [SQab1876]

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Recombinant Rabbit Monoclonal antibody [SQab1876] recognizes Caspase 3
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IP, WB
Host	Rabbit
Clonality	Monoclonal
Clone	SQab1876
Isotype	IgG
Target Name	Caspase 3
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 1-100 of Human Caspase 3.
Conjugation	Un-conjugated
Alternate Names	CASP3; Caspase 3; Apopain; CPP32; CPP32B; Caspase 3, Apoptosis-Related Cysteine Peptidase; Caspase 3, Apoptosis-Related Cysteine Protease; SREBP Cleavage Activity 1; Cysteine Protease CPP32; Protein Yama; EC 3.4.22.56; Caspase-3; CASP-3; CPP-32; SCA-1; Yama; PARP Cleavage Protease; Procaspase3; EC 3.4.22

Application Instructions

Application table	Application	Dilution
	FACS	1:200 - 1:1000
	ICC/IF	1:200 - 1:800
	IP	1:50
	WB	1:1000 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA
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. 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.

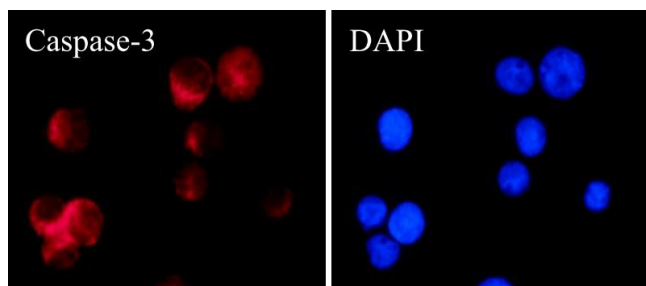
Note

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

Bioinformation

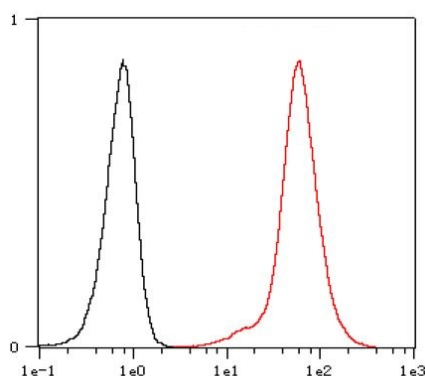
Gene Symbol	CASP3
Gene Full Name	caspace 3, apoptosis-related cysteine peptidase
Background	The protein encoded by this gene is a cysteine-aspartic acid protease that plays a central role in the execution-phase of cell apoptosis. The encoded protein cleaves and inactivates poly(ADP-ribose) polymerase while it cleaves and activates sterol regulatory element binding proteins as well as caspases 6, 7, and 9. This protein itself is processed by caspases 8, 9, and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease. [provided by RefSeq, Aug 2017]
Function	Cleaves XRCC4 and phospholipid scramblase proteins XKR4, XKR8 and XKR9, leading to promote phosphatidylserine exposure on apoptotic cell surface. [UniProt]
Highlight	Related Antibody Duos and Panels: ARG30105 Apoptosis Marker Antibody Duo (Caspase3, PARP) ARG30110 Mitochondria/Caspase dependant Apoptosis Antibody Panel (Caspase3, Caspase9, Cytochrome c, PARP) (WB) Related products: Caspase 3 antibodies: Caspase 3 Duos / Panels:
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Neuroscience antibody; Apoptosis Marker antibody; Mitochondria/Caspase Dependant Apoptosis Marker antibody
Calculated Mw	32 kDa, 17 kDa (cleaved)
PTM	Acetylation, Phosphoprotein, S-nitrosylation, Zymogen. [UniProt]
Cellular Localization	Cytoplasm. [UniProt]

Images



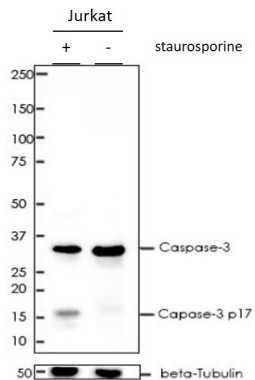
ARG66328 anti-Caspase 3 antibody [SQab1876] ICC/IF image

Immunofluorescence: Jurkat cells were fixed with 4% paraformaldehyde for 30 min at RT, permeabilized with 0.1% Triton X-100 for 10 min at RT then blocked with 10% goat serum for 30 min at RT. Cells were stained with ARG66328 anti-Caspase 3 antibody [SQab1876] (red) at 1:800 and 4°C. DAPI (blue) was used as the nuclear counter stain.



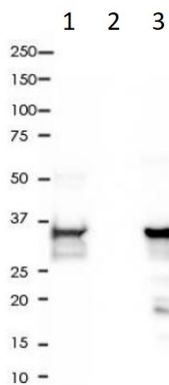
ARG66328 anti-Caspase 3 antibody [SQab1876] FACS image

Flow Cytometry: Ramos cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were stained with ARG66328 anti-Caspase 3 antibody [SQab1876] (red) at 1:1,000 dilution in 1x PBS/1% BSA for 30 min at RT, followed by Alexa Fluor® 488 labelled secondary antibody. Unlabelled sample (black) was used as a control. .



ARG66328 anti-Caspase 3 antibody [SQab1876] WB image

Western blot: 20 μ g of Jurkat treated with 1 μ M staurosporine for 4h (+) or untreated (-). The blots were stained with ARG66328 anti-Caspase 3 antibody [SQab1876] at 1:2000 dilution.



ARG66328 anti-Caspase 3 antibody [SQab1876] IP image

Immunoprecipitation: 0.4 mg of Jurkat whole cell lysate immunoprecipitated (1:50) and stained with ARG66328 anti-Caspase 3 antibody [SQab1876]. 1) ARG66328 IP in Jurkat whole cell lysate, 2) PBS instead of ARG66328 in Jurkat whole cell lysate, and 3) Jurkat whole cell lysate, 10 μ g (input).