

**DATASHEET**

**Caspase 3 Mouse Monoclonal Antibody(C2577)**

CAT. NO. AMA02189

**KEY FEATURES**

Target	Caspase 3	Source / Host	Mouse
Reactivity	Human, Mouse, Rat	Clonality	Monoclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

**BACKGROUND**

Thiol protease that acts as a major effector caspase involved in the execution phase of apoptosis . Following cleavage and activation by initiator caspases (CASP8, CASP9 and/or CASP10), mediates execution of apoptosis by catalyzing cleavage of many proteins . At the onset of apoptosis, it proteolytically cleaves poly(ADP-ribose) polymerase PARP1 at a '216-Asp-|-Gly-217' bond . Cleaves and activates sterol regulatory element binding proteins (SREBPs) between the basic helix-loop-helix leucine zipper domain and the membrane attachment domain . Cleaves and activates caspase-6, -7 and -9 (CASP6, CASP7 and CASP9, respectively) . Cleaves and inactivates interleukin-18 (IL18) . Involved in the cleavage of huntingtin . Triggers cell adhesion in sympathetic neurons through RET cleavage .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
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\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

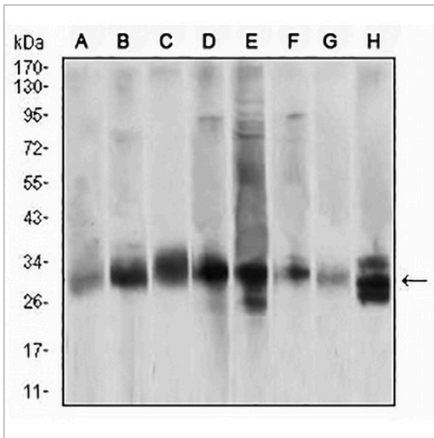
Description	Mouse monoclonal to Caspase 3
Specificity	Recognizes endogenous levels of Caspase 3 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human Caspase 3 expressed in E. Coli
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 32 kD; Observed: 32 kD kD
Form/Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	CPP32; Caspase-3; CASP-3; Apopain; Cysteine protease CPP32; CPP-32; Protein Yama; SREBP cleavage activity 1; SCA-1
Gene Symbol	CASP3
Entrez Gene	836(Human); 12367(Mouse); 25402(Rat)
SwissProt	P42574(Human); P70677(Mouse); P55213(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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**DATA**

Western blot analysis of Caspase 3 expression in HeLa (A), Jurkat (B), HepG2 (C), BCL1 (D), C6 (E), SKBr3 (F), NIH/3T3 (G), A549 (H) whole cell lysates. (Predicted band size: 32 kD; Observed band size: 32 kD)

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.