Order: 0571-88177686
Fax: 0571-88177681
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Rev.: 2024/1/18

Caspase-3 (pro+p17) Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX00082
Clone# RR686

Predicted Molecular Wt: 32/17kDa
Species Cross-reactivity: Human
Species cross-reactivity determined by WB
Applications: WB IF/ICC FC IP

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P42574

Background:

Involved in the activation cascade of caspases responsible for apoptosis execution. At the onset of apoptosis it proteolytically cleaves poly(ADP-ribose) polymerase (PARP) 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. Involved in the cleavage of huntingtin. Triggers cell adhesion in sympathetic neurons through RET cleavage. Catalytic activityi Strict requirement for an Asp residue at positions P1 and P4.

Immunogen:

A synthetic peptide corresponding to aa1-100 of human Caspase-3 was used as an immunogen.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

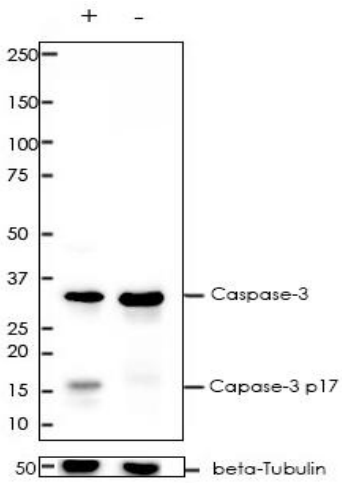
-20°C.

Storage instructions:

Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

WB:	1:1,000 - 1:2,000
IF/ICC:	1:200 - 1:800
FC:	1:200 - 1:1,000
IP:	1:50



All lanes: Anti-Caspase-3 antibody at 1:2,000 dilution

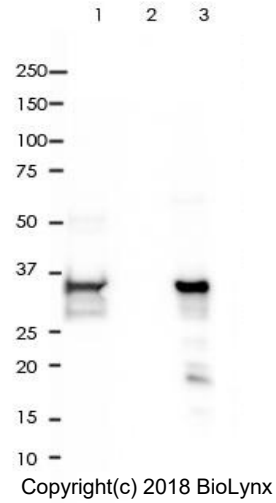
Predicted MW: 32/17 kDa
Observed MW: 35/17 kDa

Lane +: Jurkat treated with 1 uM staurosporine for 4h
Lane -: Jurkat untreated

Lysate at 20 µg per lane
2nd Ab:
GAR HRP(H+L) 1:5,000

Exposure: 20s

This antibody is specific for the pro form and the p17 cleaved form of



Caspase-3 was immunoprecipitated from 0.4mg of Jurkat whole cell lysate with RR686 at 1:50 dilution.
2nd Ab:
GAR HRP for IP 1:500

Lane 1: RR686 IP in Jurkat whole cell lysate
Lane 2: PBS instead of RR686 in Jurkat whole cell lysate
Lane 3: Jurkat whole cell lysate, 10 µg (input)

Background References:

1. Cabrera S et al. Autophagy 11:670-84 (2015).

2. Frazzi R et al. Int J Cancer : (2012).

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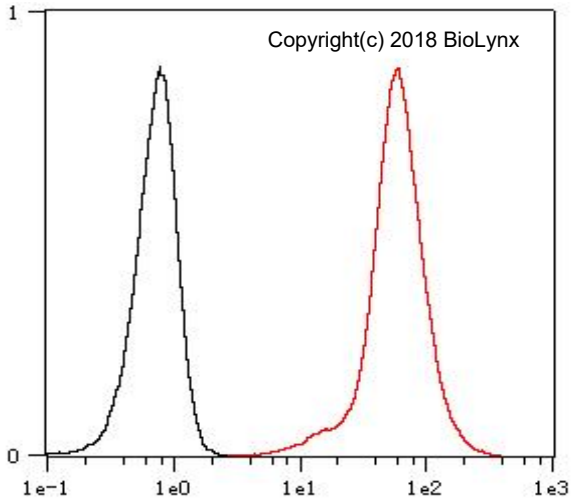
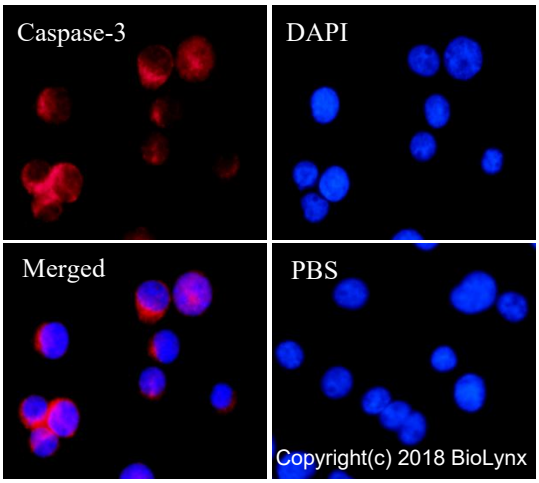


Overlay histogram showing Ramos cells stained with RR686 (Red). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the antibody (RR686, 1:1,000 dilution) in 1x PBS/1% BSA for 30 min at room temperature. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20 min at room temperature. Unlabelled sample (Black) was used as a control.



RR686 staining Caspase-3 in Jurkat cells by IF/ICC (immunofluorescence/immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:800) at 4°C. An Alexa Fluor® 594-conjugated Goat Anti-Rabbit IgG polyclonal was used as the secondary antibody (1:500). DAPI (blue) was used as the nuclear counter stain.

Control: PBS and secondary antibody, An Alexa Fluor® 488-conjugated Goat Anti-Rabbit IgG (1:500).

Product QC'd by:

For research use only. Not for use in diagnostic or therapeutic applications.