Product datasheet

Anti-Caspase 3/CASP3 (p17) Antibody (Clone#AOE-3)

Catalog Number: *BM3957*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-Caspase 3/CASP3 (p17) Antibody (Clone#AOE-3)
Gene Name	CASP3
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, rat
Tested Application	WB, IHC, ICC/IF, IP, FCM
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human Caspase-3
Concentration	500ug/ml
Purification	Affinity-chromatography
Observed MW	35 kDa,(cleaved)20/17/12 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-200 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-200 ImmunoPrecipitation (IP): 1:50 Flow Cytometry (FCM): 1:50

Storage

12 months from date of receipt，-20℃ as supplied.6 months 2 to 8℃ after reconstitution.Avoid repeated freezing and thawing.

Background Information

Caspase-3 (CPP-32, Apoptain, Yama, SCA-1) is a critical executioner of apoptosis, as it is either partially or totally responsible for the proteolytic cleavage of many key proteins such as the nuclear enzyme poly(ADP-ribose) polymerase (PARP). Activation of caspase-3 requires proteolytic processing of its inactive zymogen into activated p17 and p12 fragments. Cleavage of caspase-3 requires aspartic acid at the P1 position.

Reference

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Anti-Caspase 3/CASP3 (p17) Antibody (Clone#AOE-3)被引用在31文献中。

Selected Validation Data

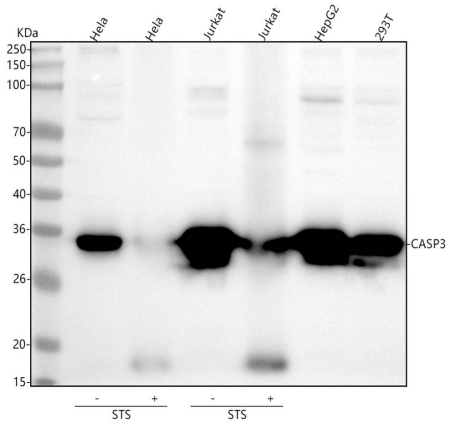

Figure 1. Western blot analysis of anti-Caspase 3/CASP3 antibody (BM3957). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human Hela whole cell lysates,
Lane 3: human Jurkat whole cell lysates,
Lane 4: human Jurkat whole cell lysates,
Lane 5: human HepG2 whole cell lysates,
Lane 6: human 293T whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Caspase 3/CASP3 antigen affinity purified monoclonal antibody (BM3957) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Caspase 3/CASP3 at approximately 32 kDa. The expected band size for Caspase 3/CASP3 is at 32 kDa.

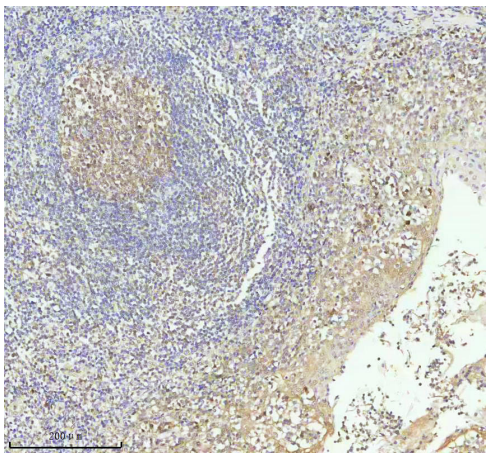

Figure 2. IHC analysis of Caspase 3/CASP3 using anti-Caspase 3/CASP3 antibody (BM3957) .
Caspase 3/CASP3 was detected in a paraffin-embedded section of human tonsil tissue. The tissue section was incubated with rabbit anti-Caspase 3/CASP3 Antibody (BM3957) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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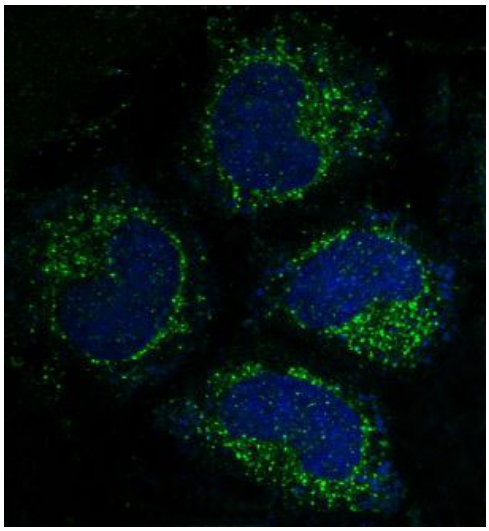

Immunofluorescent analysis of Hela cells, using Caspase-3 Antibody
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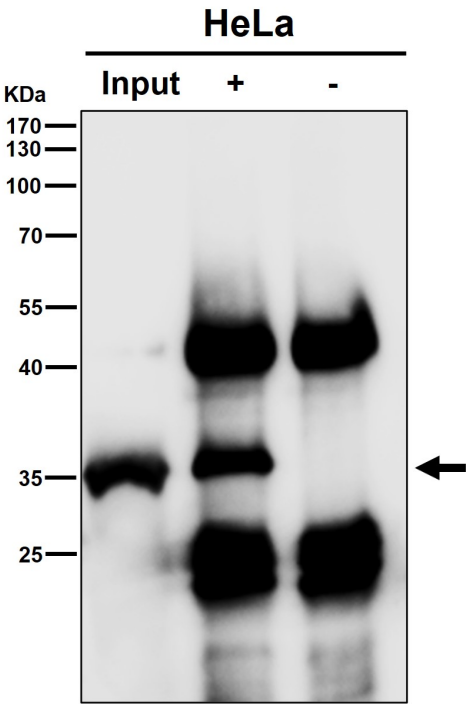

Immunoprecipitate (IP) analysis using the Antibody. (wb)