Caspase-3 (3G2) Mouse mAb

For Research Use Only. Not For Use In Diagnostic Procedures.

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<td>WB</td>
<td>H</td>
<td>Endogenous</td>
<td>17, 19, 35</td>
<td>Mouse IgG1</td>
<td>P42574</td>
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**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity / Sensitivity**

Caspase-3 (3G2) Mouse mAb detects endogenous levels of full length (35 kDa) and the large fragment (17/19 kDa) of caspase-3 resulting from cleavage at aspartic acid 175.

**Species Reactivity:**

Human

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to amino acids 28-44 of human caspase-3.

**Background**

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) (1). Activation of caspase-3 requires proteolytic processing of its inactive zymogen into activated p17 and p12 fragments. Cleavage of caspase-3 requires the aspartic acid residue at the P1 position (2).


**Species Reactivity is determined by testing in at least one approved application (e.g., western blot).**

**APPLICATIONS KEY**


**CROSS-REACTIVITY KEY**


**IMPORTANT:** For primary antibodies recommended for western blotting applications, we recommend incubating the membrane with diluted antibody at 4°C with gentle shaking overnight. Please refer to the western blot protocol found on the product web page for the antibody-specific diluent recommendation.
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