Caspase-3 Antibody

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

**Product Usage Information**

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<th>Application</th>
<th>Reactivity</th>
<th>Sensitivity</th>
<th>MW (kDa)</th>
<th>Source</th>
<th>UniProt ID</th>
<th>Entrez-Gene Id</th>
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<td>Western Blotting</td>
<td>H M R Mk</td>
<td>Endogenous</td>
<td>17, 19, 35</td>
<td>Rabbit</td>
<td>P42574</td>
<td>836</td>
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<td>Immunoprecipitation</td>
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<td>Immunohistochemistry (Paraffin)</td>
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**Storage**

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

**Specificity / Sensitivity**

Caspase-3 Antibody detects endogenous levels of full length caspase-3 (35 kDa) and the large fragment of caspase-3 resulting from cleavage (17 kDa).

**Species Reactivity:**

Human, Mouse, Rat, Monkey

**Species predicted to react based on 100% sequence homology:**

Pig

**Source / Purification**

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding the cleavage site of human caspase-3. Antibodies are purified by protein A and peptide affinity chromatography.

**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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