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#9663

## Caspase-3 Control Cell Extracts

Controls for 10 western blots

**For Research Use Only. Not for Use in Diagnostic Procedures.**

Product Includes	Product #	Quantity
Caspase-3 Control Cell Extracts (Jurkat untreated)	64514	100 µl
Caspase-3 Control Cell Extracts (Jurkat +Cytochrome c)	83979	100 µl

<b>Description</b>	<p>Caspase-3 Control Cell Extracts (Jurkat Untreated): Untreated Jurkat cells are lysed in Chaps cell extract buffer and a cytoplasmic fraction is generated to serve as a negative control for caspase cleavage. Supplied in SDS sample buffer.</p> <p>Caspase-3 Control Cell Extracts (Jurkat +Cytochrome c): Untreated Jurkat cells are lysed in Chaps cell extract buffer and a cytoplasmic fraction is generated. Extracts are treated with cytochrome c <i>in vitro</i> to generate a positive control for caspase cleavage. Supplied in SDS sample buffer.</p>
<b>Storage</b>	<p>Supplied in SDS Sample Buffer: 62.5 mM Tris-HCl (pH 6.8 at 25°C), 2% w/v SDS, 10% glycerol, 50 mM DTT, 0.01% w/v bromophenol blue or phenolred.</p> <p>Store at -20°C, or at -80°C for long-term storage.</p>
<b>Background</b>	<p>Caspase-3 (CPP-32, Apopain, 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).</p>
<b>Directions for Use</b>	<p>Boil for 3 minutes prior to use. Load 10 µl of untreated and cytochrome c treated Caspase-3 Control Cell Extracts per lane.</p>
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Fernandes-Alnemri, T. et al. (1994) <i>J Biol Chem</i> 269, 30761-4.</li> <li>2. Nicholson, D.W. et al. (1995) <i>Nature</i> 376, 37-43.</li> </ol>

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