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## Phospho-Caspase-9 (Thr125) Antibody

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

Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
Endogenous	49	Rabbit	#P55211	842

<b>Storage</b>	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.
<b>Specificity/Sensitivity</b>	Phospho-Caspase-9 (Thr125) Antibody detects endogenous levels of caspase-9 only when phosphorylated at threonine 125.
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr125 of human caspase-9
<b>Background</b>	<p>Caspase-9 (ICE-LAP6, Mch6) is an important member of the cysteine aspartic acid protease (caspase) family (1,2). Upon apoptotic stimulation, cytochrome c released from mitochondria associates with the 47 kDa procaspase-9/Apaf-1. Apaf-1 mediated activation of caspase-9 involves intrinsic proteolytic processing, resulting in cleavage at Asp315 and producing a p35 subunit. Another cleavage occurs at Asp330, producing a p37 subunit that can serve to amplify the apoptotic response (3-6). Cleaved caspase-9 further processes other caspase members, including caspase-3 and caspase-7, to initiate a caspase cascade, which leads to apoptosis (7-10).</p> <p>Caspase-9 is phosphorylated at Thr125 through the p44/42 MAPK pathway, and this phosphorylation is associated with inhibition of caspase activation (6).</p>
<b>Background References</b>	<ol style="list-style-type: none"> <li>Duan, H. et al. (1996) <i>J. Biol. Chem.</i> 271, 16720-16724.</li> <li>Srinivasula, S. M. et al. (1996) <i>J. Biol. Chem.</i> 271, 27099-27106.</li> <li>Liu, X. et al. (1996) <i>Cell</i> 86, 147-157.</li> <li>Li, P. et al. (1997) <i>Cell</i> 91, 479-489.</li> <li>Zou, H. et al. (1999) <i>J. Biol. Chem.</i> 274, 11549-11556.</li> <li>Srinivasula, S.M. et al. (1998) <i>Mol Cell</i> 1, 949-57.</li> <li>Deveraux, Q. L. et al. (1998) <i>EMBO J.</i> 17, 2215-2223.</li> <li>Slee, E. A. et al. (1999) <i>J. Cell Biol.</i> 144, 281-292.</li> <li>Sun, X.M. et al. (1999) <i>J Biol Chem</i> 274, 5053-60.</li> <li>MacFarlane, M. et al. (1997) <i>J. Cell Biol.</i> 137, 469-479.</li> <li>Ajimura, M. et al. (1993) <i>Genetics</i> 133, 51-66.</li> </ol>

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

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