Revision 1

Store at -20C

#2226

Phospho-Caspase-9 (Thr125) Antibody

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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

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

Phospho-Caspase-9 (Thr125) Antibody detects endogenous levels of caspase-9 only when phosphorylated at threonine 125.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr125 of human caspase-9

Background

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).

Caspase-9 is phosphorylated at Thr125 through the p44/42 MAPK pathway, and this phosphorylation is associated with inhibition of caspase activation (6).

Background References

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2. Srinivasula, S. M. et al. (1996) *J. Biol. Chem.* 271, 27099-27106.
3. Liu, X. et al. (1996) *Cell* 86, 147-157.
4. Li, P. et al. (1997) *Cell* 91, 479-489.
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6. Srinivasula, S.M. et al. (1998) *Mol Cell* 1, 949-57.
7. Deveraux, Q. L. et al. (1998) *EMBO J.* 17, 2215-2223.
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9. Sun, X.M. et al. (1999) *J Biol Chem* 274, 5053-60.
10. MacFarlane, M. et al. (1997) *J. Cell Biol.* 137, 469-479.
11. Ajimura, M. et al. (1993) *Genetics* 133, 51-66.

Species Reactivity

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

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Limited Uses

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