Revision 9

Store at -20C

#20750

Cleaved Caspase-9 (Asp315) (D8I9E) Rabbit mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IF-IC, FC-FP	H	Endogenous	35	Rabbit IgG	#P55211	842

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:50
Immunofluorescence (Immunocytochemistry)	1:400 - 1:1600
Flow Cytometry (Fixed/Permeabilized)	1:100 - 1:400

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.

For a carrier free (BSA and azide free) version of this product see product #24731.

Specificity/Sensitivity

Cleaved-Caspase-9 (Asp315) (D8I9E) Rabbit mAb recognizes endogenous levels of caspase-9 protein only when cleaved at Asp315. Non-specific proteins that are induced by apoptosis under certain conditions may be detected.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp315 of human caspase-9 protein.

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).

Background References

1. Duan, H. et al. (1996) *J. Biol. Chem.* 271, 16720-16724.
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.
5. Zou, H. et al. (1999) *J. Biol. Chem.* 274, 11549-11556.
6. Srinivasula, S.M. et al. (1998) *Mol Cell* 1, 949-57.
7. Deveraux, Q. L. et al. (1998) *EMBO J.* 17, 2215-2223.
8. Slee, E. A. et al. (1999) *J. Cell Biol.* 144, 281-292.
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.

Species Reactivity

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

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human

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