

#42542 Store at +4°C

Cleaved Caspase-7 (Asp198) (D6H1) Rabbit mAb (PE Conjugate)



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Applications: FC-FP	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P55210	Entrez-Gene Id: 840
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.	
Specificity / Sensitivity	Cleaved Caspase-7 (Asp198) (D6H1) Rabbit mAb (PE Conjugate) recognizes endogenous levels of caspase-7 protein only when cleaved at Asp198.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp198 of human caspase-7 protein.	
Product Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Cleaved Caspase-7 (Asp198) (D6H1) Rabbit mAb #8438.	
Background	Caspase-7 (CMH-1, Mch3, ICE-LAP3) has been identified as a major contributor to the execution of apoptosis (1-4). Caspase-7, like caspase-3, is an effector caspase that is responsible for cleaving downstream substrates such as (ADP-ribose) polymerase and PARP (1,3). During apoptosis, caspase-7 is activated through proteolytic processing by upstream caspases at Asp23, Asp198, and Asp206 to produce the mature subunits (1,3). Similar to caspase-2 and -3, caspase-7 preferentially cleaves substrates following the recognition sequence DEVD (5).	
Background References	<ol style="list-style-type: none"> 1. Fernandes-Alnemri, T. et al. (1995) <i>Cancer Res</i> 55, 6045-52. 2. Duan, H. et al. (1996) <i>J Biol Chem</i> 271, 1621-5. 3. Lippke, J.A. et al. (1996) <i>J Biol Chem</i> 271, 1825-8. 4. Cohen, G.M. (1997) <i>Biochem J</i> 326 (Pt 1), 1-16. 5. Thornberry, N.A. et al. (1997) <i>J Biol Chem</i> 272, 17907-11. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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