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Cleaved Drosophila Dcp-1 (Asp215) Antibody

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

Applications: W, IF-IC	Reactivity: Dm	Sensitivity: Endogenous	MW (kDa): 22	Source/Isotype: Rabbit	UniProt ID: #O02002	Entrez-Gene Id: 37729
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Product Usage Information	Application Western Blotting Immunofluorescence (Immunocytochemistry)	Dilution 1:1000 1:800
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	Cleaved Drosophila Dcp-1 (Asp215) Antibody recognizes endogenous levels of the large 22 kDa fragment of cleaved Dcp-1. This antibody does not recognize full length Dcp-1. The antibody also detects a non-specific, apoptotic-related band at 50 kDa by western blot.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino-terminal residues adjacent to Asp215 of Drosophila Dcp-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Cell death in the fruit fly <i>Drosophila melanogaster</i> is regulated by many of the same stimuli as mammalian cell death (1). The <i>Drosophila</i> genome contains seven caspase genes; three encode initiator caspases, and four encode effector caspases (reviewed in (2)). The <i>Drosophila</i> effector caspase, death caspase-1 (Dcp-1), is a critical executioner of apoptosis. It is involved in the proteolytic cleavage of many key proteins, such as the nuclear enzyme poly (ADP-ribose) polymerase (PARP). The activation of Dcp-1 requires proteolytic processing of its inactive zymogen into active p22 and p13 fragments (3). Comparison of the <i>in vivo</i> activity between DrICE and Dcp-1 has shown that DrICE is a more effective inducer of apoptosis than Dcp-1, which instead plays a role in determining the rate of cell death (4).	
Background References	<ol style="list-style-type: none"> 1. Steller, H. et al. (1994) <i>Philos Trans R Soc Lond B Biol Sci</i> 345, 247-50. 2. Hay, B.A. and Guo, M. (2006) <i>Annu Rev Cell Dev Biol</i> 22, 623-50. 3. Song, Z. et al. (1997) <i>Science</i> 275, 536-40. 4. Florentin, A. and Arama, E. (2012) <i>J Cell Biol</i> 196, 513-27. 	
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 IF-IC: Immunofluorescence (Immunocytochemistry)	
Cross-Reactivity Key	Dm: <i>D. melanogaster</i>	
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