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Cleaved Drosophila ICE (drICE) (Asp230) Antibody

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

Applications: W	Reactivity: Dm	Sensitivity: Endogenous	MW (kDa): 21	Source/Isotype: Rabbit	UniProt ID: #O01382	Entrez-Gene Id: 43514
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Product Usage Information	Application Western Blotting	Dilution 1:1000
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 ICE (drICE) (Asp230) Antibody recognizes endogenous levels of the large 21 kDa fragment of cleaved drICE. This antibody also detects low levels of full length drICE (35 kDa).	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino-terminal residues adjacent to Asp230 of Drosophila ICE 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). drICE is a cysteine protease that cleaves baculovirus p35 and lamin DmO <i>in vitro</i> and acts downstream of rpr (3). drICE is proteolytically processed during apoptosis into active p21 and p12 subunits. 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 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. Fraser, A.G. and Evan, G.I. (1997) <i>EMBO J</i> 16, 2805-13. 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
Cross-Reactivity Key	Dm: <i>D. melanogaster</i>
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