

Drosophila ICE (drICE) Antibody

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	Dm	Endogenous	38, 21	Rabbit	#O01382	43514

Product Usage Information	Application	Dilution
	Western Blotting	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	Drosophila ICE (drICE) Antibody recognizes endogenous levels of total drICE protein, including both full-length and cleaved protein products.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp230 of <i>Drosophila</i> ICE (drICE) 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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