

#9578 Store at -20C

Cleaved Drosophila Dcp-1 (Asp215) Antibody



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

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------|---------|-------------|-----------------|
| WB, IF-IC | Dm | Endogenous | 22 | Rabbit | #O02002 | 37729 |

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 *Drosophila melanogaster* is regulated by many of the same stimuli as mammalian cell death (1). The *Drosophila* genome contains seven caspase genes; three encode initiator caspases, and four encode effector caspases (reviewed in (2)). The *Drosophila* 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 in vivo 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

1. Steller, H. et al. (1994) *Philos Trans R Soc Lond B Biol Sci* 345, 247-50.
2. Hay, B.A. and Guo, M. (2006) *Annu Rev Cell Dev Biol* 22, 623-50.
3. Song, Z. et al. (1997) *Science* 275, 536-40.
4. Florentin, A. and Arama, E. (2012) *J Cell Biol* 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

WB: Western Blotting **IF-IC:** Immunofluorescence (Immunocytochemistry)

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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