

Polyclonal Antibody to Disembodied (N-term) - Aff - Purified

Alternate names:	CG12028, CYP302A1, Cytochrome P450 302a1, dib
Catalog No.:	AP09975PU-N
Quantity:	0.1 mg
Concentration:	0.75-1.2 µg/µl
Background:	<p>In Fruit Fly (<i>Drosophila melanogaster</i>) steroid hormones play an important role in the reproduction, development and homeostasis between transitions between various stages of development (1). In <i>D. melanogaster</i> the hormone ecdysone (E) is converted to 20-hydroxyecdysone by a P450 enzyme in peripheral target tissue. The genomic and regulatory effect of this hormone are mediated by activation of a nuclear hormone receptor and an activation of transcriptional cascade (2). Recently it has been shown that a product of the Disembodied locus is being potentially involved in the production control of ecdysteroid as a member of the cytochrome P450 family monooxygenase (CYP302A). Mutation in the Disembodied protein results in a number of distinct phenotypes in <i>D. melanogaster</i> including disruption in dorsal closure, head evolution, gut morphogenesis, and failure to produce embryonic cuticle. Most of these disruptions are the result of low affinity of 20E to its receptor due to significant reduction in the expression of IMP-E1 gene. Several other mutations in the "Halloween" group of proteins, including Shadow (<i>sad</i>) also resulted in similar phenotypes (3, 4). The co-expression of <i>dib</i> and <i>sad</i> causes increased metabolism of ketotriol to ecdysone (2) and the two proteins are concentrated within the individual segment (2).</p>

Uniprot ID:	Q9NGX9
NCBI:	NP_524810
GeneID:	45282
Host:	Rabbit
Immunogen:	Synthetic peptide for Disembodied (N-term)

AA Sequence:
KIS CTS RQC TFA KPY

Format:	State: Liquid Ig fraction Purification: Affinity chromatography Buffer System: Stabilization buffer
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Applications:	Immunocytochemistry: 1:200. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
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- Specificity:** This antibody detects Disembodied at N-term.
- Species Reactivity:** **Tested:** Drosophila melanogaster
- Storage:** Store (in aliquots) at -20 °C. Avoid repeated freezing and thawing.
Shelf life: one year from despatch.
- General Readings:**
1. Kappler C. et. al., J. steroid Biochem. 31, 891-898, 1988.
 2. Warren J T. et. al., Proc. Natl. Acad. Sci. USA 99, 11043-11048, 2002.
 3. Thummel, C. S Cell 83, 871-877, 1995.
 4. Chavez V. M. et. al., Development 127, 4115-4126, 2000.
 5. Jurgens G., et. al., Roux's Arch. Dev. Biol. 193, 283-295, 1984.