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# New Item New Item

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## D. melanogaster protein Disembodied (dib)-selective antibodies

### Disembodied (dib) antibodies (Dis-100P, Dis-101AP, Dis-110P and Dis-112AP)

In Fruit Fly (*Drosophila melanogaster*) steroid hormones play an important role in the reproduction, development and homeostasis between transitions between various stages of development (1). In *D. melanogaster* 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 activation of transcriptional cascade (2). Recently it has been shown that a product of the Disembodied locus as being potentially involved in the production control of ecdysteroid as a member of the cytochrome P450 family monooxygenase (CYP302A). Mutation in the Disembodied protein result in a number of distinct phenotypes in *D. melanogaster* 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 "Howloween" group of proteins, including Shadow (sad) also resulted in similar phenotypes (3, 4). The co-expression of dib and sad causes increased metabolism of ketotriol to ecdysone (2) and the two proteins are concentrated with in the individual segment (2).

The Anti-disembodied-selective antibodies were generated against conserved sequences near the N-terminus and the C-terminal end of the protein that are unique to Disembodied (dib) protein. The Disembodied-selective antibodies label dib proteins in fruit fly extracts. The Disembodied antibodies are affinity purified against immobilized antigen based affinity chromatography which yielded epitope-specific antibodies. The Disembodied antibodies label a 58-60kDa protein in *D. melanogaster* extracts. Anti-Shadow-selective antibodies are also available in affinity-purified form for confocal, Western blotting and immunocytochemical analyses. *FabGennix Inc.* will also conjugate antibodies with fluorescent probes upon request at extra charge.

*FabGennix Inc.* also provides several antibodies against proteins that are involved *Drosophila melanogaster* research such as several Anti-PDE antibodies, Anti-Wishfulthinking, Anti-Baboon, Anti-Shade, Anti-Saxophone, Anti-SARA anchor protein, Anti-Phantom and Anti-Punt protein. *FabGennix Inc.* employs cyclic peptide methodology for generating antibodies, which results in higher titer and specificity (6). *FabGennix, Inc.*, will also provide Western blot positive controls for most of these antibodies in ready-to-use buffer for easy identification of respective proteins. Limited quantities of antigens are also available. Please enquire for their availability before ordering.

Catalog #	Host Species	Nature	Cross reactivity	Quantity	Price
Dis-100P	Rabbit	Affinity purified Antibody	<i>D. melanogaster</i>	100 µl	\$ 205.00
Dis-101AP	Rabbit	Affinity purified Antibody	<i>D. melanogaster</i>	100 µg	\$ 225.00
Dis-112AP	Rabbit	Affinity purified Antibody	<i>D. melanogaster</i>	100 µl	\$ 225.00
P-Dis101	N/A	Blocking antigenic peptide	Peptide	250 µg	\$ 65.00
P-Dis112	N/A	Blocking antigenic peptide	Peptide	250 µg	\$ 65.00

R = rat; M = mouse; H = human; C = chicken; monk = monkey ; \* not all variants are labeled equally

**Immunogen:** Synthetic peptide for Saxophone antibodies are DIS-101AP (KIS CTS RQC TFA KPY) and ; DIS-112AP (KTL LIN KPD APV VID LRL RRE C); All peptides were amidated for conjugation.

**Concentration:** SAX-101A; SAX-112AP 0.75-1.2 mg/ml of antibody stabilization buffer

**Applications:** Antibody SAX-101AP and SAX-112AP are ideal for western blotting, and immunocytochemistry assays. The dilutions for this antibody is for reference only, investigators are expected to determine the optimal conditions for specific assay in his/her laboratory. All SARA antibodies work well in Western analyses.  
Western blotting: > 1:500;  
IHC (DIS-101AP) 1:200; (DIS-112AP) 1:250

**Protocols:** Standard protocol for various applications (Western blot; immunoprecipitation and immunohistochemistry) of this antibody is provided with the product specification sheet, however, *FabGennix Inc.* strongly recommends investigators to optimize conditions for use of this antibody in their laboratories.

### References:

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.

\* For users who may require large amounts of SAX-101AP or SAX-112AP, please enquire about bulk material discounts.

This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis.

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