



FabGennix Inc.
INTERNATIONAL

New Item New Item

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D. melanogaster protein Baboon selective antibodies

Anti-Baboon-selective antibodies (Bab-101AP and Bab-112AP)

Transmembrane receptor Patched regulates several developmental processes in both invertebrate and vertebrates. In higher vertebrates the patched (Ptc) also acts as tumor suppressor. The patched receptor signaling involves negatively regulating a GPCR, smoothened. The binding Hedgehog ligand to Ptc, removes the negative interaction of Ptc and allows the signaling by smoothened. It has been shown that Ptc D. melanogaster head development. During head morphogenesis in D. melanogaster Ptc positively interacts with smoothened, which leads to stimulation of Activin type I receptor **Baboon** and activation of cell proliferation in the eye-antennal disc (3). The expression of activated Baboon in the Ptc domain in Ptc mutant background completely abolish the head developmental defects.

Baboon is a 601 amino acid long (Mr. Wt. 73 kDa) protein with a single transmembrane domain. FabGennix International Inc. has produced epitope specific anti-**Baboon** antibodies in rabbit. The Anti-Baboon-selective antibodies were generated against a peptide sequence near the C-terminal end of the protein that are unique to Baboon protein. The **Baboon**-selective antibodies are affinity purified against immobilized antigen based affinity chromatography which yielded epitope-specific antibodies. The **Baboon** antibodies label a 73-74 kDa protein in D. melanogaster extracts. Anti-**Baboon**-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 in Drosophila melanogaster research such as several Anti-PDE antibodies, Anti-Tkv, Anti-Wishful thinking, Anti-**Baboon**, Anti-Shadow, Anti-Shade, Anti-SARA anchor protein, Anti-Phantom and Anti-Saxophone 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
Bab-100P	Rabbit	Baboon Antibody	Drosophila melanogaster	100 µg	205
Bab-101AP	Rabbit	Affinity purified Antibody	Drosophila melanogaster	100 µg	235
Bab-110P	Rabbit	Baboon Antibody	Drosophila melanogaster	100 ul	205
Bab-112AP	Rabbit	Affinity purified Antibody	Drosophila melanogaster	100 ug	235
P-Bab100	N/A	Blocking antigenic peptide	Peptide	250 µg	75
P-Bab110	N/A	Blocking antigenic peptide	Peptide	250 ug	75

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

Immunogen: Synthetic peptide selected from antigenic epitopes residing on the surface of the baboon protein. The relative positions of the antigenic epitopes are Bab-101AP near N-terminus and for Bab-112AP near C-terminus of the Baboon protein. All peptides were post-synthetically modified and conjugated to a carrier protein for immunization purposes.

Concentration: Bab-100P Neat Serum; Bab-101AP/Bab-112AP: 0.75-1.2 mg/ml of antibody stabilization buffer

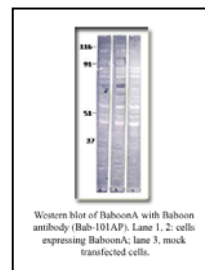
Applications: Antibody Bab-100P and Bab-101AP are ideal for immunoprecipitation, western blotting, and immunocytochemistry assays. The dilutions for this antibody is for reference only, investigators are expected to determine the optimal conditions for specific assay in his/her laboratory. All Baboon antibodies work well in Western analyses.
Western blotting: > 1:500; Immunoprecipitation & i.p pull-down assays: > 1:200. Other applications have

not been

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. Singer M. A., Penton A., Twombly V., Hoffmann F. M., Gelbert W. M. Signaling through both type I DPP receptors is required for anterior-posterior patterning of the entire Drosophila wing. *Development*. 124(1):79-89, 1997 Jan.
2. Xie T and Spradling A. C. decapentaplegic is essential for the maintenance and division of germline stem cells in the Drosophila ovary. *Cell* 94, 251-260, 1998.
3. Shyamala B. V and Bhat K. M. A positive role for patched-smoothened signaling in promoting cell proliferation during normal head development in **Drosophila**. *Development* 128; 1837-49, 2002.
4. Farooqui S. M. Hamdi A., Brock J., Prasad C. J. *Neurochem* 57:1363-369, 1991.



Western blot of BaboonA with Baboon antibody (Bab-101AP). Lane 1, 2: cells expressing BaboonA; lane 3, mock transfected cells.

* For users who may require large amounts of Bab-101AP and Bab-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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