

# Bif Rabbit pAb

Catalog # AP96248

## Product Information

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| <b>Application</b>                      | WB, IHC-P, IHC-F, IF, E                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Predicted</b>                        | Rat, Pig, Human, Mouse, Dog, Horse                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Host</b>                             | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Clonality</b>                        | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Calculated MW</b>                    | 40 KDa                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Physical State</b>                   | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Immunogen</b>                        | KLH conjugated synthetic peptide derived from human Bif                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Epitope Specificity</b>              | 151-250/365                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Isotype</b>                          | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>                           | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Buffer</b>                           | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                                                                                                                                                                              |
| <b>SUBCELLULAR LOCATION</b>             | Cytoplasm. Golgi apparatus membrane. Mitochondrion outer membrane. Association with the Golgi apparatus depends on the cell type.                                                                                                                                                                                                                                                                                                              |
| <b>SIMILARITY</b>                       | Belongs to the endophilin family. Contains 1 BAR domain. Contains 1 SH3 domain.                                                                                                                                                                                                                                                                                                                                                                |
| <b>SUBUNIT</b>                          | Binds DNM1, HTT, AMPH, BIN1 and ARFGAP1 (By similarity). Homodimer, and heterodimer with SH3GLB2. Binds BAX. Induction of apoptosis augments BAX binding.                                                                                                                                                                                                                                                                                      |
| <b>Post-translational modifications</b> | Phosphorylated at Thr-145 by CDK5; this phosphorylation is required for autophagy induction in starved neurons and facilitates homodimerization.                                                                                                                                                                                                                                                                                               |
| <b>Important Note</b>                   | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                                                                                                                      |
| <b>Background Descriptions</b>          | May be required for normal outer mitochondrial membrane dynamics. Required for coatomer-mediated retrograde transport in certain cells. May recruit other proteins to membranes with high curvature. May promote membrane fusion. Tissue specificity: Highly expressed in heart, skeletal muscle, kidney and placenta. Detected at lower levels in brain, colon, thymus, spleen, liver, small intestine, lung and peripheral blood leukocytes. |

## Additional Information

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| <b>Gene ID</b>            | 51100                                                                                                                                                                                    |
| <b>Other Names</b>        | Bif-1; CGI-61; PPP1R70; dj612B15.2; SH3 domain containing GRB2 like, endophilin B1; SH3-domain, GRB2-like, endophilin B1; protein phosphatase 1, regulatory subunit 70                   |
| <b>Target/Specificity</b> | Highly expressed in heart, skeletal muscle, kidney and placenta. Detected at lower levels in brain, colon, thymus, spleen, liver, small intestine, lung and peripheral blood leukocytes. |
| <b>Dilution</b>           | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000                                                                                                            |

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| <b>Storage</b>  | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.                                   |
| <b>Name</b>     | Bif Rabbit pAb                                                                                                                                                                                                                    |
| <b>Function</b> | May be required for normal outer mitochondrial membrane dynamics. Required for coatamer-mediated retrograde transport in certain cells. May recruit other proteins to membranes with high curvature. May promote membrane fusion. |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.