

Datasheet for 200-301-H61**BIF1 Antibody****Overview**

Description:	Anti-BIF1 (MOUSE) Monoclonal Antibody - 200-301-H61
Item No.:	200-301-H61
Size:	100 µg
Applications:	IF, IHC, IP, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background: Anti-Bif-1 Antibody detects human BIF. The Bcl-2 family consists of anti-apoptotic (or cell survival) genes, such as Bcl-2, Bcl-XL and pro-apoptotic (or cell death) genes including Bax and BAD. In addition to its anti-apoptotic effect, Bcl-2 also inhibits progression through the cell cycle. Functional interactions between family members as well as binding to other cellular proteins modulate their activities. Bcl-2 family members are important in normal tissue development, homeostasis, and disease states. Bcl-2 prevents cell death by forming heterodimers with Bax and Bad. Bax promotes cell death by forming homodimers, which can be blocked by forming heterodimers with Bcl-2 or BCL-XL. Recently, using yeast two-hybrid system Cuddeback have identified a cDNA encoding a 365 amino acid protein, which interacts physically with Bax protein and influences cell life and death. Bif-1 contains a Src homology 3 (SH3) domain in the C-terminus. It does not contain any of the conserved Bcl-2 homology (BH) domains of the Bcl-2 family proteins. Human Bif-1 protein shares 96% and 42% identity at the amino acids level with mouse and *C. elegans*, respectively. Overexpression of Bif-1 in transfected cell lines promotes Bax conformational change, caspase activation, and apoptotic cell death following growth factor withdrawal. Bif-1 RNA is abundantly expressed in heart, skeletal muscle, kidney, and placenta. Anti-BIF-1 antibody is ideal for investigators involved in cytokines and growth factor research and NFkappaB and signaling research.

Synonyms:	KIAA0491, Endophilin-B1, Bax-interacting factor 1, Bif-1, SH3 domain-containing GRB2-like protein B1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	30A882.1.1
Format:	IgG1

Target Details

Gene Name:	SH3GLB1
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Bif-1 Antibody was produced in mice and was prepared by repeated immunizations at the c-terminus of the human recombinant protein Bif-1.
Purity/Specificity:	Anti-Bif-1 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-Bif-1 from Human based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-Bif-1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9Y371 • NCBI - NP_001193580.1 • GeneID - 51100

Application Details

Tested Applications:	IF, IHC, IP, WB
Application Note:	Anti-Bif-1 Antibody is tested for use in WB, ICC/IF, IHC, IHC-P, and IP. Expect a band approximately 23kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1-2- µg/mL

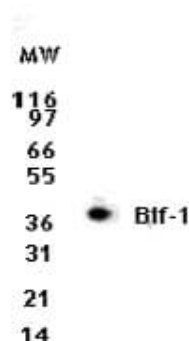
Formulation

Physical State:	Liquid
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Western Blot

Western Blot of Mouse Anti-Bif-1 antibody. Lane A: Jurkat Cell Lysate. Load: 10 µg per lane. Primary antibody: Bif-1 antibody at 2 µg/ml dilution for overnight at 4°C.

Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 40.8/40 kDa for Bif-1. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.