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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

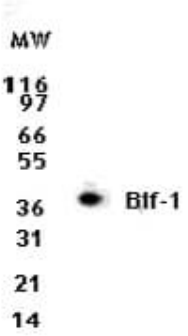
Formulation

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

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