

Datasheet for 200-301-H60**BI1 Antibody****Overview**

Description:	Anti-BI1 (MOUSE) Monoclonal Antibody - 200-301-H60
Item No.:	200-301-H60
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	Anti-Bi-1 antibody detects human Bi-1. BI-1 (Bax Inhibitor 1) is an anti-apoptotic protein that has been linked to protection from apoptosis induced endoplasmic reticulum (ER) stress (reviewed in Bailley-Maitre et al, 2007). BI-1 contains several transmembrane domains, localizes to ER membranes, and has cytoprotective functions that are conserved in both animals and plants. BI-1 suppresses apoptosis induced by ectopic expression of the proapoptotic protein Bax as well as other types of stimuli. Cells from BI-1 knockout (KO) mice are hypersensitive to apoptosis induced by ER stress—causing chemical agents (thapsigargin, tunicamycin, and brefeldin A) or by ischemia-reperfusion (IR) injury. Conversely, overexpression of BI-1 protects against apoptosis induced by ER stress and IR. The mechanism by which BI-1 protects cells from ER-stress induced apoptosis remains to be fully elucidated, it is thought to involve regulation of Ca ²⁺ handling by the ER. Anti-Bi-1 antibody is ideal for investigators involved in apoptosis research.
Synonyms:	BI1, TEGT, Bax inhibitor 1, BI-1, Testis-enhanced gene transcript protein, Transmembrane BAX inhibitor motif-containing protein 6
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	20F430
Format:	IgG2b

Target Details

Gene Name:	TMBIM6
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Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Bi-1 Antibody was produced in mice prepared by repeated immunizations of a mixture of three synthetic peptides corresponding to the N-terminus, internal and C-terminus of human Bi-1 protein.
Purity/Specificity:	Anti-Bi-1 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-Bi-1 from human, mouse and rat based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-Bi-1 from other sources has not been determined.
Relevant Links:	• UniProtKB - P55061 • NCBI - NP_001092046.1 • GeneID - 7009

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Bi-1 antibody is tested for use in WB and IHC-P. 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.
IHC:	5-10 µg/mL
WB:	1:500-1:1000

Formulation

Physical State:	Liquid
Concentration:	0.5 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
Stabilizer:	0.2% Gelatin

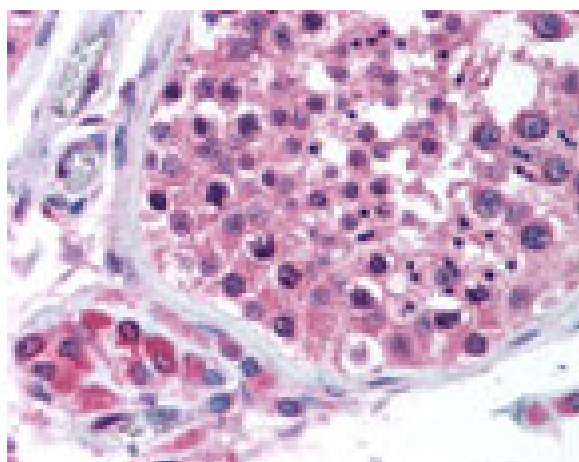
Shipping & Handling

Shipping Condition:	Dry Ice
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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.

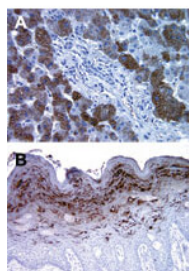
Expiration: Expiration date is one (1) year from date of receipt.

Images



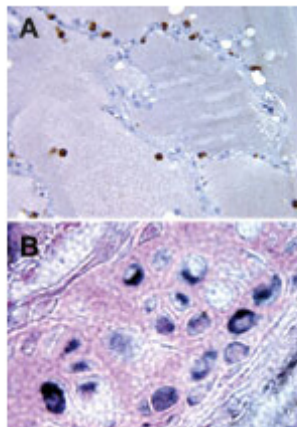
Immunohistochemistry

Immunohistochemistry of mouse Anti-Bi-1 antibody. Tissue: human testis. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Bi-1 at 5 µg/ml for 1 h at RT. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: Bi-1 is an endoplasmic reticulum membrane and a multi-pass membrane protein. Staining: Bi-1 has a Hematoxylin-eosin counterstain.



Immunohistochemistry

Immunohistochemistry of mouse Anti-Bi-1 antibody. Tissue: A: normal human liver. B: normal human skin. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Bi-1 at 5 µg/ml for 1 h at RT. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: Bi-1 is an endoplasmic reticulum membrane and a multi-pass membrane protein. Staining: Bi-1 has a Hematoxylin-eosin counterstain.

**Immunohistochemistry**

Immunohistochemistry of mouse Anti-Bi-1 antibody. Tissue:

A: normal human lung alveoli with positive lung macrophages. B: normal mouse cartilage with positive chondrocytes. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Bi-1 at 5 µg/ml for 1 h at RT. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT.

Localization: Bi-1 is an endoplasmic reticulum membrane and a multi-pass membrane protein. Staining: Bi-1 has a Hematoxylin-eosin counterstain.

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.