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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 in 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 hypersensitivite 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 Ca2+ 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

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

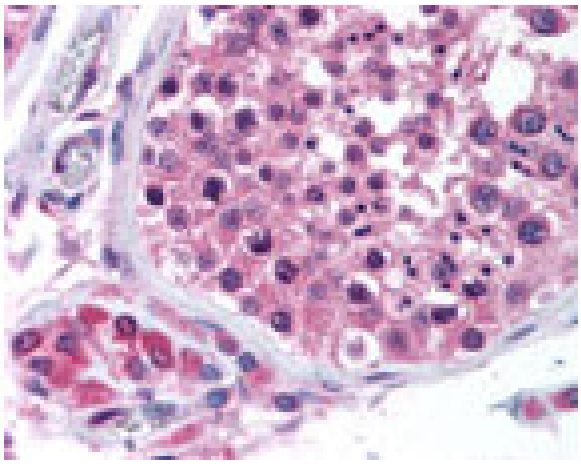
Physical State:	Liquid
Concentration:	0.5 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide
Stabilizer:	0.2% Gelatin

Shipping & Handling

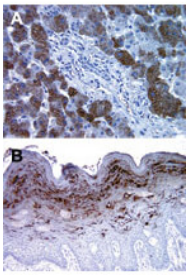
Shipping Condition:	Dry Ice

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.

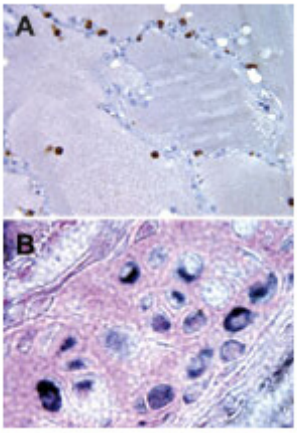
Images



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.

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