

Datasheet for ABIN6655585
anti-Bax Inhibitor 1 antibody



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3 Images

Overview

Quantity:	100 µg
Target:	Bax Inhibitor 1 (TMBIM6)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Bax Inhibitor 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	BI1 Antibody
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.
Clone:	20F430
Isotype:	IgG2b kappa
Cross-Reactivity (Details):	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.
Purification:	Anti-Bi-1 Antibody was purified by Protein G chromatography.

Target Details

Target:	Bax Inhibitor 1 (TMBIM6)
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Target Details

Alternative Name:	Bi-1 (TMBIM6 Products)
Background:	<p>Synonyms: BI1, TEGT, Bax inhibitor 1, BI-1, Testis-enhanced gene transcript protein, Transmembrane BAX inhibitor motif-containing protein 6</p> <p>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 Bailey-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 Ca²⁺ handling by the ER. Anti-Bi-1 antibody is ideal for investigators involved in apoptosis research.</p> <p>Gene Name: TMBIM6</p>
Gene ID:	7009
NCBI Accession:	NP_001092046
UniProt:	P55061
Pathways:	Response to Water Deprivation, ER-Nucleus Signaling

Application Details

Application Notes:	Immunohistochemistry_Dilution: 5-10 µg/mL Western_Blot_Dilution: 1:500-1:1000
Comment:	Anti-Bi-1 antibody is tested for use in WB and IHC-P. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

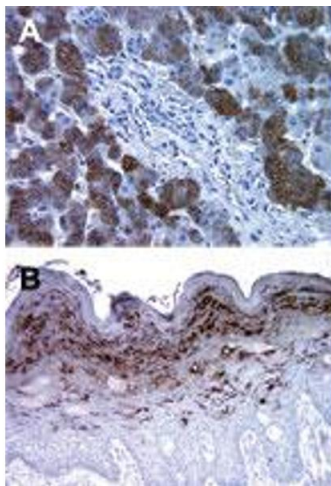
Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 0.2 % Gelatin

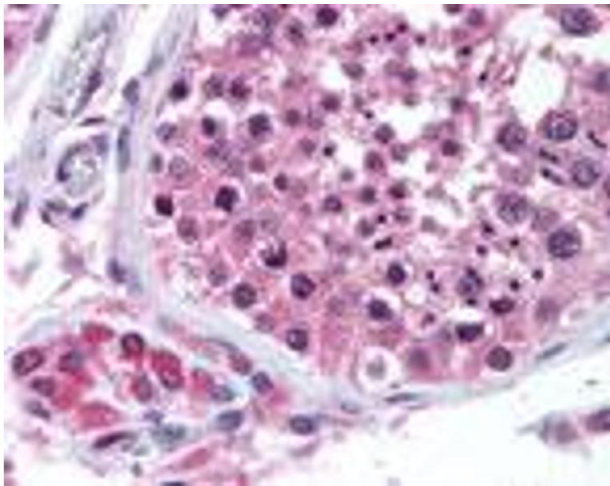
Handling

	Preservative: 0.05 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

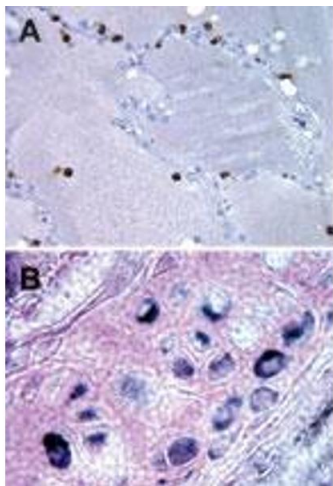
Images



Immunohistochemistry			
Image	1.	Bi-1	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			
Image	2.	Bi-1	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

Image 3. Bi-1 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.