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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 200-303-W70

VDAC1 Antibody Peroxidase

Overview

Description:	Anti-VDAC1 (MOUSE) Monoclonal Antibody Peroxidase Conjugated - 200-303-W70
Item No.:	200-303-W70
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Voltage-dependent anion-selective channel protein 1 (also known as VDAC, VDAC1 or outer mitochondrial membrane protein porin 1) is the outer mitochondrial membrane receptor for hexokinase and BCL2L1. VDAC forms a channel through the mitochondrial membrane and is involved in small molecule diffusion, cell volume regulation and apoptosis. VDAC may participate in the formation of the permeability transition pore complex (PTPC), which is responsible for the release of mitochondrial products that triggers apoptosis. Anti-VDAC1 is ideal for research in Cell Biology and Apoptosis.
Synonyms:	Voltage Dependent Anion Channel 1, Porin, Voltage dependent anion selective channel protein 1, Voltage-dependent anion-selective channel protein 1, hVDAC1, MGC111064, Mitochondrial Porin, Outer mitochondrial membrane protein porin 1, Plasmalemmal porin
Host Species:	Mouse
Conjugate:	Peroxidase (HRP)
Clonality:	Monoclonal
Clone ID:	S152B-23
Format:	IgG2a

Target Details

Gene Name:	VDAC1
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Recombinant Protein
Immunogen:	Anti-VDAC1 Antibody was produced by repeated immunization of mice with a fusion protein containing amino acids 1-293 (full length) of human VDAC1.
Purity/Specificity:	Anti-VDAC1 Antibody was purified from concentrated tissue culture supernate by Protein G chromatography. BLAST analysis suggests that it is 98% identical to mouse, 98% identical to rat and >60% identical to VDAC2 and VDAC3.
Relevant Links:	• UniProtKB - P21796 • GeneID - 7416

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-VDAC1 HRP Conjugated Antibody is tested for Western Blots, Immunohistochemistry and Immunocytochemistry. Expect a band approximately ~30kDa on specific lysates or tissues. Does not cross react with VDAC2 or VDAC3 (based on KO validation results). 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.
ELISA:	1:10,000
IHC:	User Optimized
WB:	1:1000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.1% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Wet 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.

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.