

Datasheet for 200-901-MJ8S**Anti-MEN1 Antibody****Overview**

Description:	Anti-MEN1 (CHICKEN) Antibody - 200-901-MJ8S
Item No.:	200-901-MJ8S
Size:	25 µL
Applications:	IHC, WB
Reactivity:	Human
Host Species:	Chicken

Product Details

Background:	Menin is a scaffold protein that functions in histone modification and epigenetic gene regulation. It is thought to regulate several pathways and processes by altering chromatin structure through the modification of histones. Essential component of a MLL/SET1 histone methyltransferase (HMT) complex, a complex that specifically methylates 'Lys-4' of histone H3 (H3K4). Functions as a transcriptional regulator. Binds to the TERT promoter and represses telomerase expression. Plays a role in TGFB1-mediated inhibition of cell-proliferation, possibly regulating SMAD3 transcriptional activity. Represses JUND-mediated transcriptional activation on AP1 sites, as well as that mediated by NFkB subunit RELA. Positively regulates HOXC8 and HOXC6 gene expression. May be involved in normal hematopoiesis through the activation of HOXA9 expression. May be involved in DNA repair. Anti-MEN1 Antibody is useful for researchers interested in Multiple Endocrine Neoplasia Type I, Insulinoma, Cancer Research and Epigenetic Research.
Synonyms:	Chicken Anti-Menin1 Antibody, Menin 1, Menin, SCG2, Multiple Endocrine Neoplasia I, MEAI
Host Species:	Chicken
Clonality:	Polyclonal
Format:	IgY

Target Details

Gene Name:	MEN1
Reactivity:	Human

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Menin1 antibody was prepared from eggs of chickens laid after repeated immunizations with a synthetic peptide corresponding to a C-Terminal portion of human MEN1 conjugated to Keyhole Limpet Hemocyanin (KLH).
Purity/Specificity:	This affinity purified antibody is directed against human Menin1. This product is an IgY fraction antibody purified from monospecific chicken egg yolks by a multi-step process which includes selective precipitation and salt fractionation followed by extensive dialysis against the buffer stated above. Blast analysis the immunogen sequence shows 100% identity with human, mouse, rat, bovine, canine, and is highly conserved.
Relevant Links:	• UniProtKB - O00255 • NCBI - NP_000235.2 • GeneID - 4221

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-MEN1 Antibody has been tested in Western Blot and Immunohistochemistry. Expect a band at ~67.5, 68kDa in western blot using appropriate tissues and lysates. Anti-Menin1 should only be used for overexpressing conditions in western blot. Positive control used: Human Colon in IHC.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:50,000
IHC:	1:500
WB:	1 µg/ml

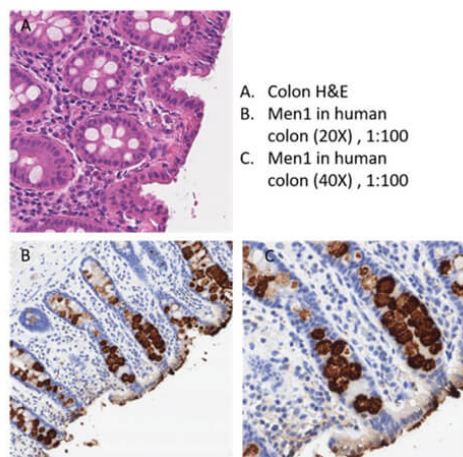
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.002 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.0
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

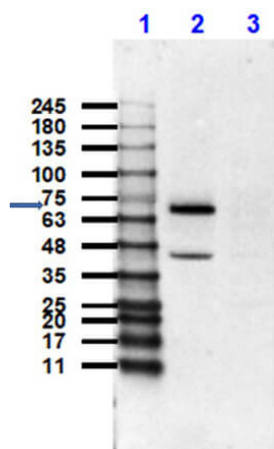
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of Chicken Anti-Menin 1 Antibody.
 Tissue: Human Colon. Fixative: None. Antigen Retrieval: HIER using Citrate Buffer for 20mins. Primary Antibody: Anti-MEN1 at 1:100 for 30 in at RT. Secondary Antibody: Alpha Anti-Chicken IgG HRP at 1:500 for 20min at RT. Counter stain: Hematoxylin. Substrate: DAB. Analysis Report: MEN1 showed strong staining in a subset of colonic epithelial cells. MEN1 does not just stain neuroendocrine cells (1% of colonic cells) but also stains proliferating epithelial cells so this staining pattern was deemed physiologic.



Western Blot

Western Blot of Chicken Anti-Menin 1 Antibody. Lane 1: Opal PreStained Molecular Weight Marker. Lane 2: MEN1, transcript variant 2, overexpressing HEK293 Lysate (10ug) [+]. Lane 3: HEK293 lysate (empty vector) (10ug) [-]. Primary Antibody: Anti-MEN1 at 1:1000 overnight at 2-8°C. Secondary Antibody: Goat Anti-Chicken IgG HRP (p/n 603-103-126) at 1:70,000. Block: 5% BLOTTO (p/n B501-0500). Exposure: 7sec. Predicted MW: ~69kDa overexpressing. Observed MW: ~70kDa, 45kDa.

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.