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Datasheet for 600-401-927

Mdm2 Antibody

Overview

Description:	Anti-MDM2 (RABBIT) Antibody - 600-401-927
Item No.:	600-401-927
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	MDM2 is a nuclear phosphoprotein with an apparent molecular mass of 90 kD that forms a complex with the p53 tumor suppressor protein. Human MDM2 was identified as a homologous product of the 'murine double minute 2' gene (mdm2). The MDM2 gene enhances the tumorigenic potential of cells when it is overexpressed and encodes a putative transcription factor. Forming a tight complex with the p53 gene, the MDM2 oncogene can inhibit p53-mediated transactivation. MDM2 binds to p53 and amplification of MDM2 in sarcomas leads to escape from p53-regulated growth control. This mechanism of tumorigenesis parallels that for virus-induced tumors in which viral oncogene products bind to and functionally inactivate p53.
Synonyms:	rabbit anti-MDM2 antibody, MDM-2, E3 ubiquitin-protein ligase Mdm2, p53-binding protein Mdm2, Oncoprotein Mdm2, Double minute 2 protein, RING-type E3 ubiquitin transferase Mdm2, Double minute 2 protein, Hdm2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Mdm2
Reactivity:	Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near aa 175-200 of mouse MDM2.
Purity/Specificity:	This affinity-purified antibody is directed against mouse MDM2 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. Reactivity occurs against Mouse MDM2 protein. A BLAST analysis was used to suggest minimal cross reactivity with MDM2 homologues from other sources.
Relevant Links:	• NCBI - 2851543 • UniProtKB - P23804 • GeneID - 17246

Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 90 kDa in size corresponding to MDM2 protein by western blotting in the appropriate cell lysate or extract. See Saucedo, et al (1999) for a discussion on expected molecular weights.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:3,000 - 1:12,000
IP:	1:100
WB:	1:500 - 1:2,000

Formulation

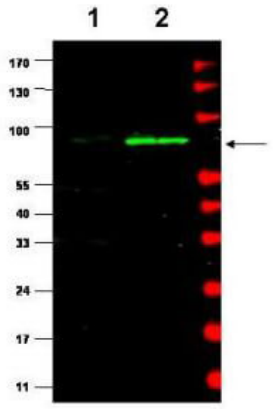
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

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



Western Blot
Western blot using Rockland's affinity purified Anti-MDM2 (Rabbit) is shown to detect a band (arrow) corresponding to mouse MDM2 protein. Lane 1: human kidney HEK293 cells (p/n W09-000-365). Lane 2: mouse MEF cells (p/n W10-001-371). Approximately 35µg of lysate was separated by 4-20% Tris Glycine SDS-PAGE. After blocking the membrane with 5% normal goat serum, 0.5% BLOTTO (p/n B501-0500) in PBS, the membrane was probed for overnight at 4° with the primary antibody diluted to 1:500 in 1% normal goat serum, 0.1% BLOTTO in PBS. The membrane was washed and reacted with a 1:10,000 dilution of IRDye800 conjugated Gt-a-Rabbit IgG [H&L] (p/n 611-132-122) for 45 min at room temperature (800 nm channel, green). Molecular weight estimation was made by comparison to prestained MW markers indicated at the right (700 nm channel, red). IRDye800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.

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