

MDM2 Monoclonal Antibody (IF2)

Product Details

Size	50 µg
Species Reactivity	Human
Published Species	Rat, Bacteria, Human, Mouse, Guinea pig
Host/Isotype	Mouse / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	IF2
Conjugate	Unconjugated
Immunogen	Synthetic peptide derived from the n-terminal region of human MDM2
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4, with 1mg/mL BSA, 30% glycerol
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2533136

Applications	Tested Dilution	Publications
Western Blot (WB)	0.5-2 µg/mL	11 Publications
Immunohistochemistry (IHC)	-	15 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:25-1:200	6 Publications
Immunocytochemistry (ICC/IF)	1:25-1:200	1 Publication
Immunoprecipitation (IP)	1-5 µg/mL	-
in situ PLA (PLA)	-	1 Publication
Miscellaneous PubMed (Misc)	-	5 Publications

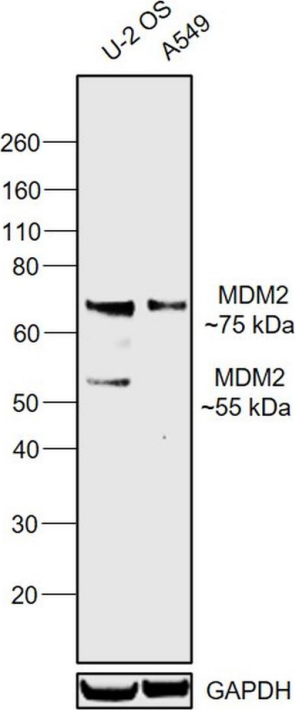
Product Specific Information

This antibody recognizes the ~90 kDa (apparent MW) MDM2 protein. Also recognizes isoforms at ~57 and ~74/76 kDa. The epitope recognized by this antibody is located within amino acids 26-169 of the human protein. Positive controls: OsA-CL, MCF-7, HeLa cell lysates. HOS cells can be used for negative control. Staining of formalin fixed, paraffin embedded tissue requires heat induced epitope retrieval pretreatment.

Product Images For MDM2 Monoclonal Antibody (IF2)

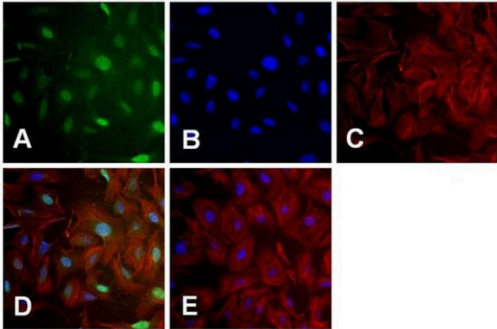
MDM2 Antibody (33-7100) in WB

Western blot was performed using Anti-MDM2 Monoclonal Antibody (IF2) (Product # 33-7100) and a 75 kDa band along with 55 kDa band, both corresponding to MDM2 was observed across cell lines tested. Whole cell extracts (30 µg lysate) of U-2 OS (Lane 1) and A549 (Lane 2) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1 µg/mL) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using SuperSignal™ West Dura Extended Duration Substrate (Product # 34076).



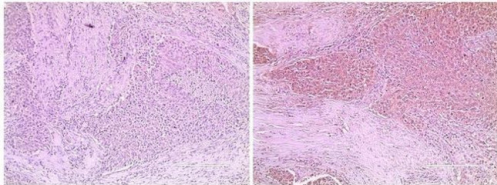
MDM2 Antibody (33-7100) in ICC/IF

Immunofluorescence analysis of MDM2 in subconfluent U2OS cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 3% BSA for 15 minutes at room temperature. The cells were probed with a MDM2 Mouse Monoclonal Antibody (Product # 33-7100) at 1.5 µg/mL for 1 hour at room temperature and then labeled with a Goat anti-Mouse IgG (H+L) Superclonal Secondary Antibody, Alexa Fluor 488 conjugate (Product # A28175) at a dilution of 1:400 for 30 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with Hoechst Dye. F-actin (Panel c: red) was stained with DyLight 554 Phalloidin (Product # 21834). Panel d is a merged image showing predominantly nuclear localization. Panel e shows no primary antibody control. The images were captured at 20X magnification.



MDM2 Antibody (33-7100) in IHC (P)

Immunohistochemistry analysis of MDM2 showing staining in the cytoplasm and nucleus of paraffin-embedded human breast carcinoma (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0) and heated in a 95C water bath for 20 minutes. Following antigen retrieval, tissues were blocked in 10% goat serum in PBS for 30 minutes at room temperature and quenched with Peroxide Suppressor (Product # 35000) for 30 minutes. Tissues were then probed with a MDM2 monoclonal antibody (Product # 33-7100) at a dilution of 40 µg/mL in blocking buffer for 1 hour at room temperature. Tissues were washed extensively in PBST and detection was performed using the SuperPicture HRP Polymer Detection Kit (Product # 87-8963) and DAB substrate (Product # 34002). Tissues were counterstained with hematoxylin (Product # TA-125-MH) and dehydrated with ethanol and xylene to prep for mounting.



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Western Blot (11)

<p>Molecular cancer therapeutics</p> <p>Decreased DNA Damage and Improved p53 Specificity of RITA Analogs.</p> <p>"33-7100 was used in Western Blotting to address the question whether RITA analogs NSC777196 and NSC782846 can induce p53-dependent apoptosis without SULT1A1-dependent DNA damage."</p> <p>Authors: Zhan Y,Zhou X,Puget S,Singh M,Peyser BD,Fan Z,Selivanova G</p>	<p>Year 2022</p> <p>Species Human</p>
<p>International journal of molecular sciences</p> <p>The Role of <i>TP53</i> in Cisplatin Resistance in Mediastinal and Testicular Germ Cell Tumors.</p> <p>"Published figure using MDM2 monoclonal antibody (Product # 33-7100) in Western Blot"</p> <p>Authors: Timmerman DM,Eleveld TF,Gillis AJM,Friedrichs CC,Hillenius S,Remmers TL,Sriram S,Looijenga LHJ</p>	<p>Year 2021</p> <p>Species Human</p> <p>Dilution 1:1,000</p>

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Immunohistochemistry (15)

<p>Cancers</p> <p>p90RSK Regulates p53 Pathway by MDM2 Phosphorylation in Thyroid Tumors.</p> <p>"33-7100 was used in Immunohistochemistry to demonstrate that p90RSK binds and phosphorylates MDM2 on serine 166 both in vitro and in vivo by kinase assay, immunoblot, and co-immunoprecipitation assay; this phosphorylation increases the stability of MDM2 which in turn binds p53, ubiquitinating it and promoting its degradation by proteasome."</p> <p>Authors: Maietta I,Del Peschio F,Buonocore P,Viscusi E,Laudati S,Iannaci G,Minopoli M,Motti ML,De Falco V</p>	<p>Year 2022</p> <p>Species Human</p>
<p>Rare tumors</p> <p>A rare case of atypical/anaplastic meningioma with MDM2 amplification.</p> <p>"Published figure using MDM2 monoclonal antibody (Product # 33-7100) in Immunohistochemistry"</p> <p>Authors: Wylleman R,Debiec-Rychter M,Sciot R</p>	<p>Year 2020</p> <p>Species Mouse</p> <p>Dilution 1:50</p>

View more IHC references on thermofisher.com

More applications with references on thermofisher.com

- IHC (P) (6)
- ICC/IF (1)
- PLA (1)
- Misc (5)

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