

# p53 Monoclonal Antibody (DO-1)

Product Details	
Size	500 µL
Species Reactivity	Human, Rhesus monkey
Published Species	Non-human primate, Human, Mouse
Host/Isotype	Mouse / IgG2a
Class	Monoclonal
Type	Antibody
Clone	DO-1
Conjugate	Unconjugated
Immunogen	Recombinant human wild-type p53 protein expressed in E. coli
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10986581

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	37 Publications
Immunohistochemistry (IHC)	-	12 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:100	2 Publications
Immunocytochemistry (ICC/IF)	1:100	5 Publications
Flow Cytometry (Flow)	-	2 Publications
Immunoprecipitation (IP)	-	3 Publications
ChIP assay (ChIP)	1-3 µg x 10^6 cells	2 Publications

## Product Specific Information

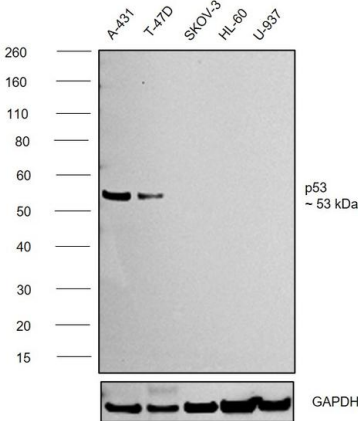
MA5-12571 targets p53 in immunohistochemistry (paraffin) and Western blot applications and shows reactivity with Human samples.

The MA5-12571 immunogen is recombinant human wild-type p53 protein expressed in E. coli.

Product Images For p53 Monoclonal Antibody (DO-1)

p53 Antibody (MA5-12571) in WB

Western blot was performed using Anti-p53 Monoclonal Antibody (DO-1) (Product # MA5-12571) and a ~53 kDa band corresponding to TP53 was observed across cell lines tested . Whole cell extracts (30 µg lysate) of A-431 (Lane 1), T-47D (Lane 2), SK-O-V3 (Lane 3), HL-60 (Lane 4), U-937 (Lane 5) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). 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 (1:1000) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177,1:20000) using the iBright™ FL1500 Imaging System (Product # A44115). Chemiluminescent detection was performed using SuperSignal™ West Atto Ultimate Sensitivity Substrate (Product # A38556).



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Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in p53 KO cell line compared to control cell line using Anti-p53 Monoclonal Antibody (DO-1) (Product # MA5-12571). {KO}

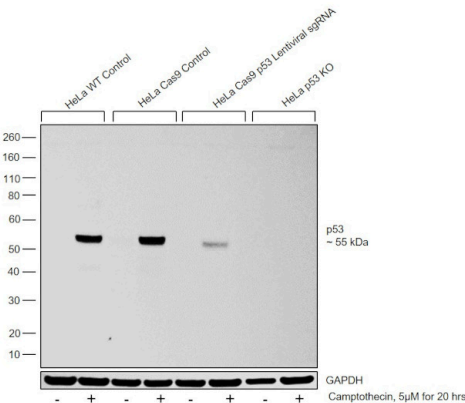
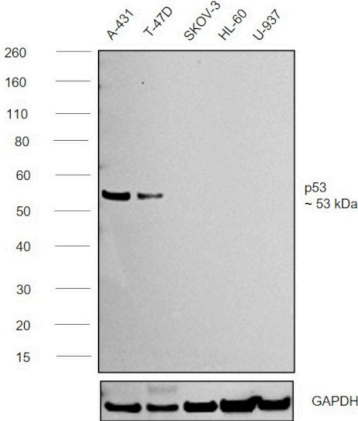


Fig. a

p53 Antibody (MA5-12571)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines owing to their inherent genetic constitution. Relative expression of TP53 was observed as increased expression in A-431 and T-47D as compared to in other cell lines using Anti-p53 Monoclonal Antibody (DO-1) (Product # MA5-12571) in Western Blot. {RE}



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Western Blot (37)

<p>The Journal of biological chemistry</p> <p><b>ABHD5 suppresses cancer cell anabolism through lipolysis-dependent activation of the AMPK/mTORC1 pathway.</b></p> <p>"MA5-12571 was used in Western Blotting to map out a novel molecular pathway crucial for limiting cancer cell proliferation."</p> <p>Authors: Chen G,Zhou G,Lotvola A,Granneman JG,Wang J</p>	<p>Year 2021</p> <p>Species Human</p> <p>Dilution 1:1000</p>
<p>Cell reports. Medicine</p> <p><b>Increased p53 signaling impairs neural differentiation in HUWE1-promoted intellectual disabilities.</b></p> <p>"MA5-12571 was used in Western Blot to suggest that increased p53 signaling underlies HUWE1-promoted syndromes and impairs XLID JMS neural differentiation."</p> <p>Authors: Aprigliano R,Aksu ME,Bradamante S,Mihaljevic B,Wang W,Rian K,Montaldo NP,Grooms KM,Fordyce Martin SL,Bordin DL,Bosshard M,Peng Y,Alexov E,Skinner C,Liabakk NB,Sullivan GJ,Bjørås M,Schwartz CE,van Loon B</p>	<p>Year 2021</p> <p>Species Human</p>

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Immunohistochemistry (12)

<p>Clinical cancer research : an official journal of the American Association for Cancer Research</p> <p><b>Preclinical Efficacy of the MDM2 Inhibitor RG7112 in MDM2-Amplified and TP53 Wild-type Glioblastomas.</b></p> <p>"Published figure using p53 monoclonal antibody (Product # MA5-12571) in Immunohistochemistry"</p> <p>Authors: Verreault M,Schmitt C,Goldwirt L,Pelton K,Haidar S,Levasseur C,Guehennec J,Knoff D,Labussi�re M,Marie Y, Ligon AH,Mokhtari K,Hoang-Xuan K,Sanson M,Alexander BM,Wen PY,Delattre JY,Ligon KL,Idbaih A</p>	<p>Year 2016</p>
<p>Gastroenterology</p> <p><b>Acquisition of Portal Venous Circulating Tumor Cells From Patients With Pancreaticobiliary Cancers by Endoscopic Ultrasound.</b></p> <p>"MA5-12571 was used in immunohistochemistry to assess a protocol for acquiring portal venous blood through endoscopic ultrasound"</p> <p>Authors: Catenacci DV,Chapman CG,Xu P,Koons A,Konda VJ,Siddiqui UD,Waxman I</p>	<p>Year 2015</p> <p>Species Human</p> <p>Dilution 1:200</p>

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- IHC (P) (2)
- ICC/IF (5)
- Flow (2)
- IP (3)
- ChIP (2)

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