

# p53 Monoclonal Antibody (PAb 240)

Product Details	
Size	500 µL
Species Reactivity	Human, Mouse
Published Species	Bovine, Sheep, Cat, Human, Mouse, Chicken, Horse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	PAb 240
Conjugate	Unconjugated
Immunogen	Murine p53-beta-galactosidase fusion protein containing p53 sequence from amino acid14-289.
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_2536305

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	3 Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	Assay-Dependent	2 Publications
Flow Cytometry (Flow)	Assay-dependent	-
Immunoprecipitation (IP)	Assay-Dependent	-
Miscellaneous PubMed (Misc)	-	1 Publication

## Product Specific Information

This antibody reacts with only mutant p53 protein under non-denaturing conditions (Immunoprecipitation) but reacts with both mutant and wild p53 under denaturing conditions (Western blot). It reacts with an epitope at aa 212-217.

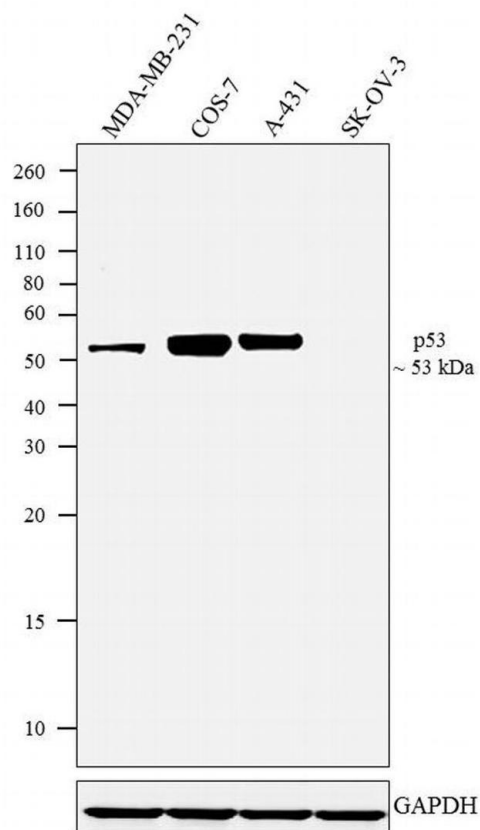
Staining of formalin-fixed, paraffin-embedded tissues requires boiling tissues in 1mM EDTA, pH 8.0, for 10-20 min followed by cooling at room temperature for 20 min.

Recommended positive controls include MDAD-231 cells, SK-BR-3 cells, colon carcinoma, or squamous cell carcinoma.

## Product Images For p53 Monoclonal Antibody (PAb 240)

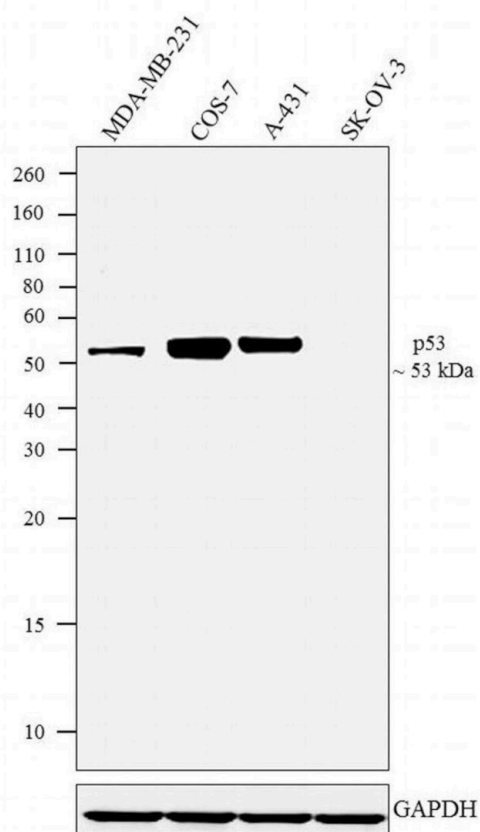
### p53 Antibody (AHO0112) in WB

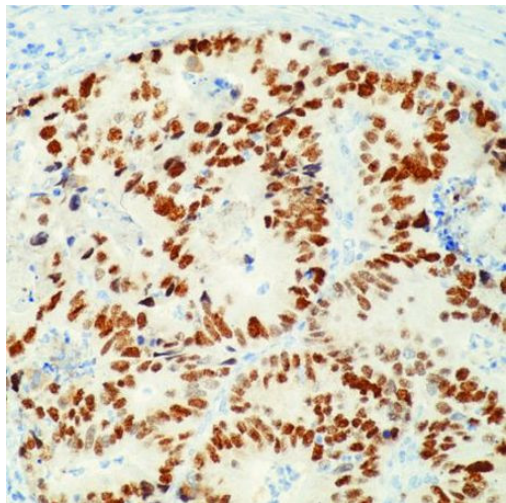
Western blot analysis was performed on whole cell extracts (30 µg lysate) of MDA-MB-231 (Lane 1), COS-7 (Lane 2), A431 (Lane 3), and SKOV3 (Lane 4). The blots were probed with Anti-p53 Mouse Monoclonal Antibody (Product # AHO0112, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP conjugate (Product # 62-6520, 1:4000 dilution). A 53 kDa band corresponding to p53 was observed across cell lines tested except SKOV3. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



### p53 Antibody (AHO0112)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. p53 endogenous expression is not observed in certain human ovarian cancer cell lines (Vikhanskaya F et. al., Nucleic Acids Res. 1994 Mar 25; 22(6):1012-7). No expression of p53 was observed in SK-OV-3 cells as compared to other cancer lines using p53 Monoclonal Antibody (Product # AHO0112) by western blotting. {RE}





#### **p53 Antibody (AHO0112) in IHC (P)**

Immunohistochemical analysis of p53 in formalin-fixed, paraffin-embedded human colon carcinoma using a p53 monoclonal antibody (Product # AHO0112). Detection was performed with a peroxidase-conjugate and DAB chromogen. Note nuclear staining of tumor cells.

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## Western Blot (3)

<p><b>Journal of proteome research</b></p> <p><b>Rapid assessment of RNAi-mediated protein depletion by selected reaction monitoring mass spectrometry.</b></p> <p>"Published figure using p53 monoclonal antibody (Product # AHO0112) in Western Blot"</p> <p>Authors: Glukhova VA,Tomazela DM,Findlay GD,Monnat RJ,MacCoss MJ</p>	<p><b>Year</b> 2013</p> <p><b>Species</b> Human</p>
<p><b>Cell death and differentiation</b></p> <p><b>Delayed activation of Bax by DNA damage in embryonic stem cells with knock-in mutations of the Abl nuclear localization signals.</b></p> <p>"AHO0112 was used in western blot to investigate Abl nuclear import in DNA damage-induced apoptosis"</p> <p>Authors: Preyer M,Shu CW,Wang JY</p>	<p><b>Year</b> 2007</p>

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## Immunohistochemistry (3)

<p><b>Carcinogenesis</b></p> <p><b>UV-induced ablation of the epidermal basal layer including p53-mutant clones resets UV carcinogenesis showing squamous cell carcinomas to originate from interfollicular epidermis.</b></p> <p>"AHO0112 was used in immunohistochemistry to investigate the origin of UV-induced squamous cell carcinomas."</p> <p>Authors: Rebel HG,Bodmann CA,van de Glind GC,de Gruijl FR</p>	<p><b>Year</b> 2012</p> <p><b>Species</b> Mouse</p> <p><b>Dilution</b> 1:250</p>
<p><b>Phytotherapy research : PTR</b></p> <p><b>The effect of the aqueous extract of the roots of Asparagus racemosus on hepatocarcinogenesis initiated by diethylnitrosamine.</b></p> <p>"AHO0112 was used in immunohistochemistry to report that pretreatment of Wistar rats with the aqueous extract of Asparagus racemosus prevents diethylnitrosamine-induced damage"</p> <p>Authors: Agrawal A,Sharma M,Rai SK,Singh B,Tiwari M,Chandra R</p>	<p><b>Year</b> 2008</p>

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IHC (P) (2)

Misc (1)

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