

p53 Monoclonal Antibody (BD53-12)

Product Details

Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Mouse
Host/Isotype	Mouse / IgG2a
Class	Monoclonal
Type	Antibody
Clone	BD53-12
Conjugate	Unconjugated
Immunogen	p53.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.2
Contains	0.01% sodium azide
Storage conditions	4°C short term, -80°C long term
RRID	AB_1077419

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	7 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent	-
Immunocytochemistry (ICC/IF)	5 µg/mL	-
Flow Cytometry (Flow)	Assay-dependent	-
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	Assay-dependent	-
ChIP assay (ChIP)	2 µL/10 ⁶ cells	-
Immunomicroscopy (IM)	Assay-dependent	-

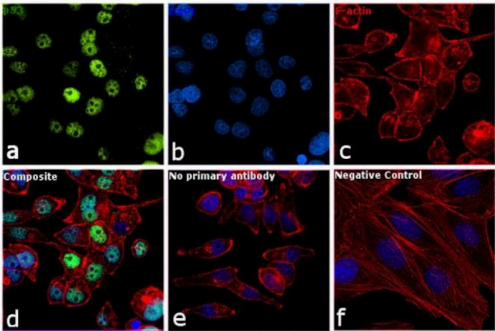
Product Specific Information

MA1-7629 detects p53 from human, rat and mouse samples.

MA1-7629 has been successfully used in ELISA, fluorescent microscopy, flow cytometry, immunoprecipitation and immunohistochemistry (frozen) procedures.

The MA1-7629 immunogen is a p53 protein.

Product Images For p53 Monoclonal Antibody (BD53-12)

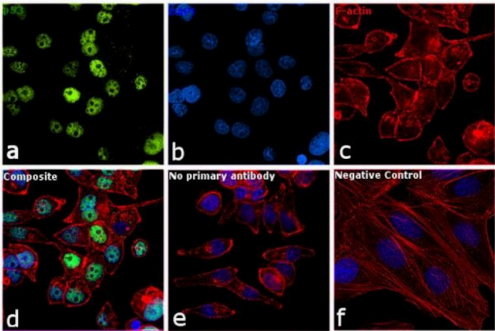


p53 Antibody (MA1-7629)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines owing to their inherent genetic constitution. Expression of p53 was observed in T-47D compared to SKOV-3 using p53 Monoclonal Antibody (BD53-12) (Product # MA1-7629) in ICC. {RE}

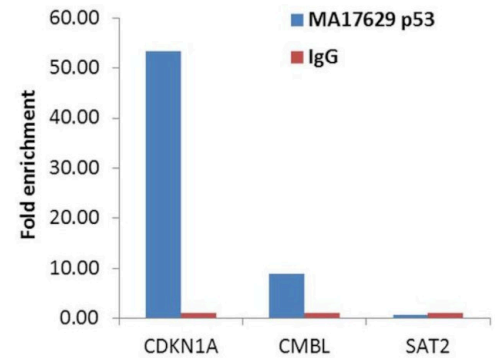
p53 Antibody (MA1-7629) in ICC/IF

Immunofluorescence analysis of p53 was performed using 70% confluent log phase T-47D cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with p53 Monoclonal Antibody (4A8) (Product # MA1-7629) at 5 µg/mL in 0.1% BSA and incubated overnight at 4 degree Celsius and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing nuclear localization. Panel f represents SK-OV-3 cells as negative control, showing no p53 staining. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



p53 Antibody (MA1-7629)

Antibody specificity was demonstrated by detection of enrichment of the target protein at specific gene loci. Chromatin Immunoprecipitation (ChIP) was performed using Anti-p53 Monoclonal Antibody (Product # MA1-7629) using PCR primer pairs over the CDKN1A and CMBL genes (active) and SAT2 satellite repeats (inactive). {RE}



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Western Blot (1)

<p>Neuroscience letters</p> <p>X-irradiation reduces the proliferation of astrocytes by cell cycle arrest.</p> <p>"MA1-7629 was used in western blot to study the mechanism by which X-ray irradiation attenuates the proliferation of astrocytes"</p> <p>Authors: Wang Q,Xu Y,Xie MJ,Yu ZY,Qin YY,Wang W,Zhu Z</p>	<p>Year 2011</p> <p>Species Rat</p> <p>Dilution 1:400</p>
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Immunohistochemistry (7)

<p>Experimental and toxicologic pathology : official journal of the Gesellschaft fur Toxikologische Pathologie</p> <p>The effect of vitamin C administration on monosodium glutamate induced liver injury. An experimental study.</p> <p>"MA1-7629 was used in immunohistochemistry to study the ability of vitamin C to protect against liver injury induced by monosodium glutamate"</p> <p>Authors: El-Meghawry El-Kenawy A,Osman HE,Daghestani MH</p>	<p>Year 2013</p> <p>Species Rat</p> <p>Dilution 3 µg/mL</p>
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<p>Molecular biology reports</p> <p>The effects of PDE5 inhibitory drugs on renal ischemia/reperfusion injury in rats.</p> <p>"MA1-7629 was used in immunohistochemistry to study the effects of the PDE5 inhibitors Tadalafil and Sildenafil on rat renal ischemia/reperfusion injury"</p> <p>Authors: Küçük A,Yucel M,Erkasap N,Tosun M,Koken T,Ozkurt M,Erkasap S</p>	<p>Year 2012</p> <p>Species Rat</p>
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