

# p53 Antibody Cocktail

Product Details	
Size	500 µL
Species Reactivity	Human, Mouse, Rhesus monkey
Published Species	Rat, Human, Mouse
Host/Isotype	Mouse / IgG2a/IgG2b
Class	Cocktail
Type	Antibody
Clone	DO-7, BP53-12
Conjugate	Unconjugated
Immunogen	Recombinant human p53 protein
Form	Liquid
Concentration	0.125 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_10981528

Applications	Tested Dilution	Publications
Western Blot (WB)	0.5-1.0 µg/mL	33 Publications
Immunohistochemistry (IHC)	-	66 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1-2 µg/mL	4 Publications
Immunocytochemistry (ICC/IF)	-	4 Publications
ELISA (ELISA)	-	1 Publication
Immunoprecipitation (IP)	2 µg/mL	4 Publications
ChIP assay (ChIP)	1-3 µg x 10 <sup>6</sup> cells	-
Miscellaneous PubMed (Misc)	-	2 Publications

## Product Specific Information

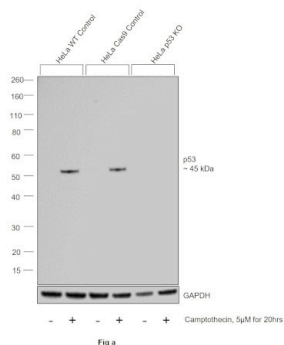
MA5-14067 targets p53 in IHC (P), IP, and WB applications and shows reactivity with Human samples.

The MA5-14067 immunogen is recombinant human p53 protein.

## Product Images For p53 Antibody Cocktail

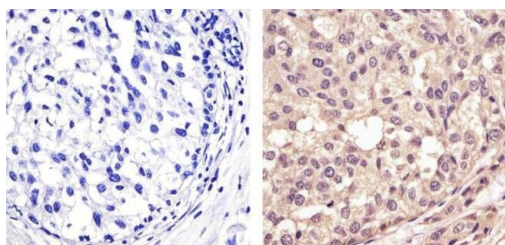
### p53 Antibody (MA5-14067)

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 Antibody Cocktail (Product # MA5-14067). {KO}



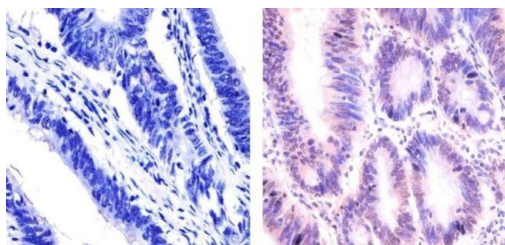
### p53 Antibody (MA5-14067) in IHC (P)

Immunohistochemistry analysis of p53 showing staining in the nucleus and weak staining in the cytoplasm of paraffin-embedded human breast carcinoma tissue (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), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H<sub>2</sub>O<sub>2</sub>-methanol for 15 min at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with a p53 Mouse Monoclonal Antibody (Product # MA5-14067) diluted in 3% BSA-PBS at a dilution of 1:50 for 1 hour at 37°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



### p53 Antibody (MA5-14067) in IHC (P)

Immunohistochemistry analysis of p53 showing staining in the nucleus and weak staining in the cytoplasm of paraffin-embedded human colon carcinoma tissue (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), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H<sub>2</sub>O<sub>2</sub>-methanol for 15 min at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with a p53 Mouse Monoclonal Antibody (Product # MA5-14067) diluted in 3% BSA-PBS at a dilution of 1:20 for 1 hour at 37°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



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Western Blot (33)

PeerJ

**Zoledronic acid promotes osteoclasts ferroptosis by inhibiting FBXO9-mediated p53 ubiquitination and degradation.**

"Published figure using p53 cocktail antibody (Product # MA5-14067) in Immunoprecipitation"  
 Authors: Qu X,Sun Z,Wang Y,Ong HS

Year  
2022

Neuropathology and applied neurobiology

**MicroRNA-34a activation in tuberous sclerosis complex during early brain development may lead to impaired corticogenesis.**

"Published figure using p53 cocktail antibody (Product # MA5-14067) in Western Blot"  
 Authors: Korotkov A,Sim NS,Luinenburg MJ,Anink JJ,van Scheppingen J,Zimmer TS,Bongaarts A,Broekaart DWM, Mijnsbergen C,Jansen FE, Van Hecke W,Spliet WGM,van Rijen PC,Feucht M,Hainfellner JA,Kršek P,Zamecnik J,Crino PB,Kotulska K,Lagae L,Jansen AC,Kwiatkowski DJ,Jozwiak S,Curatolo P,Mühlebner A, Lee JH,Mills JD,van Vliet EA, Aronica E

Year  
2021

[View more WB references on thermofisher.com](#)

Immunohistochemistry (66)

Journal of Cancer

**Clinicopathological Analysis of HIF-1alpha and TERT on Survival Outcome in Glioblastoma Patients: A Prospective, Single Institution Study.**

"MA5-14067 was used in Immunohistochemistry to investigate the association of immunohistochemical expression of hypoxia inducible factor-1 alpha (HIF-1), telomerase reverse transcriptase (TERT), isocitrate dehydrogenase 1 (IDH1) and tumor protein p53 with overall survival (OS) in glioblastoma patients."  
 Authors: Potharaju M,Mathavan A,Mangaleswaran B,Patil S,John R,Ghosh S,Kalavakonda C,Ghosh M,Verma RS

Year  
2020

Species  
Human

Turkish neurosurgery

**The Correlation Between 1p/19q Codeletion, IDH1 Mutation, p53 Overexpression and Their Prognostic Roles in 41 Turkish Anaplastic Oligodendroglioma Patients.**

"MA514067 was used in immunohistochemistry to correlate 1p/19q codeletion, IDH1 mutation and p53 protein overexpression with prognosis in Turkish anaplastic oligodendroglioma patients treated with adjuvant radiotherapy and temozolomide chemotherapy"  
 Authors: Hacisalihoglu P,Kucukodaci Z,Gundogdu G,Bilgic B

Year  
2018

Species  
Human

[View more IHC references on thermofisher.com](#)

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- IHC (P) (4)
- ICC/IF (4)
- ELISA (1)
- IP (4)
- Misc (2)

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