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

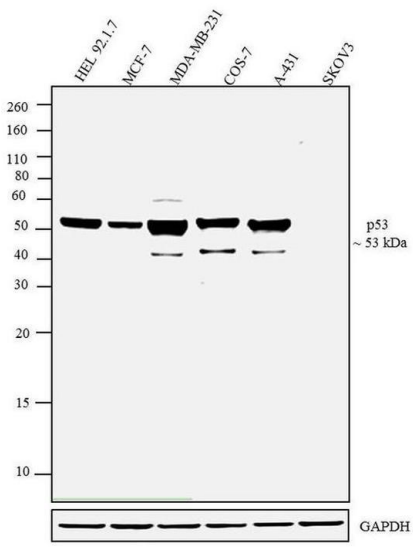
Applications	Tested Dilution	Publications
Western Blot (WB)	0.5-1.0 µg/mL	33 Publications
Immunohistochemistry (IHC)	-	66 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1-2 µg/mL	4 Publications
Immunocytochemistry (ICC/IF)	-	4 Publications
ELISA (ELISA)	-	1 Publication
Immunoprecipitation (IP)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

Product Specific Information

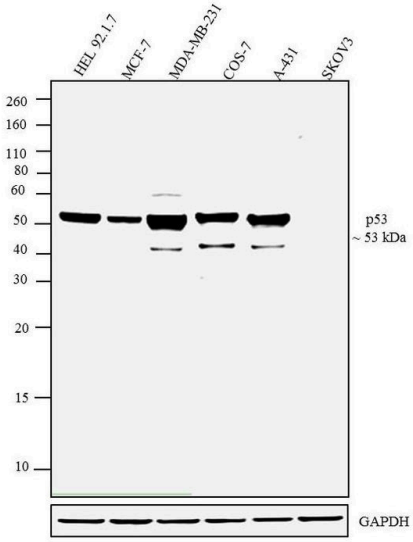
MA5-14067 targets p53 in IHC (P), IP, and WB applications and shows reactivity with Human samples.

The MA5-14067 immunogen is recombinant human p53 protein.

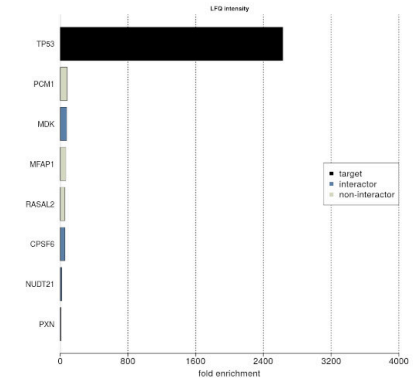
Product Images For p53 Antibody Cocktail



p53 Antibody (MA5-14067) in WB
Western blot analysis was performed on whole cell extracts (30 µg lysate) of HEL 92.1.7 (Lane 1), MCF-7 (Lane 2), MDA-MB-231 (Lane 3), COS-7 (Lane 4), A431 (Lane 5), and SKOV3 (Lane 6). The blots were probed with Anti-p53 Mouse Monoclonal Antibody (Product # MA5-14067, 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 (MA5-14067)
Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Expression of p53 was observed in all cell models tested except for SKOV-3, which is an established p53 null cell line, using p53 Mouse Monoclonal Antibody (Product # MA5-14067) in western blot. {RE}



p53 Antibody (MA5-14067)
IP-MS enrichment of TP53 (LFQ intensity): TP53 was enriched 2629-fold from BT549 lysate compared to background proteins, using the optimized IP-MS workflow with Pierce MS-Compatible Magnetic IP Kit protein A/G (Product # 90409) and TP53 antibody (Product # MA5-14067). STRING database was used to identify the protein interactor list. See more information on IP-MS verification of antibody selectivity. {IP-MS}

View more figures on thermofisher.cn

114 References

Western Blot (33)

PeerJ

Year
2022

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

Neuropathology and applied neurobiology

Year
2021

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

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Immunohistochemistry (66)

Journal of Cancer

Year
2020

Species
Human

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

Turkish neurosurgery

Year
2018

Species
Human

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

View more IHC references on thermofisher.cn

More applications with references on thermofisher.cn

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