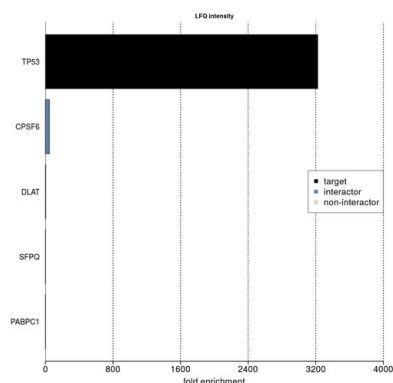


# p53 Monoclonal Antibody (PAb 1801)

Product Details	
Size	200 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	PAb 1801
Conjugate	Unconjugated
Immunogen	Recombinant p53 peptide.
Form	Liquid
Concentration	0.5 mg/mL
Purification	purified
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533018

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	11 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:500	1 Publication
Immunoprecipitation (IP)	Assay-dependent	1 Publication
ChIP assay (ChIP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	4 Publications

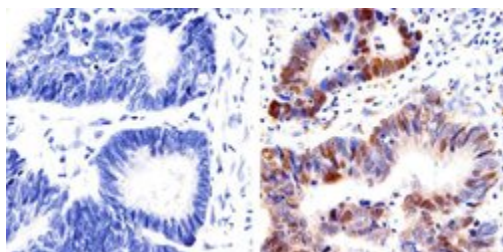
## Advanced Verification Data



### p53 Antibody (13-4000)

IP-MS enrichment of TP53 (LFQ intensity): TP53 was enriched 3225-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 # 13-4000). STRING database was used to identify the protein interactor list. See more information on IP-MS verification of antibody selectivity. IP-MS validation info.

## Product Images For p53 Monoclonal Antibody (PAb 1801)

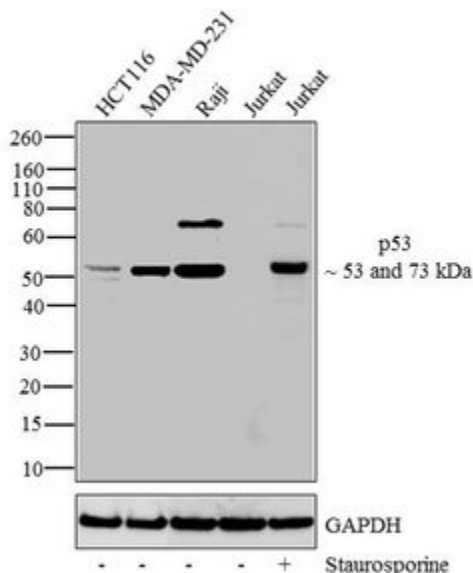


### p53 Antibody (13-4000) in IHC (P)

Immunohistochemistry analysis of p53 showing staining in the nucleus of paraffin-embedded human colon carcinoma (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 monoclonal antibody (Product # 13-4000) diluted in 3% BSA-PBS at a dilution of 1:100 overnight at 4°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 (13-4000) in WB

Western blot analysis of p53 was performed by loading 20 µg of HCT 116 (lane1), MDA-MB-231 (lane2), Raji (lane3), Jurkat (lane4) and Jurkat treated overnight with 20 µM of Staurosporine (lane5) cell lysate using NuPAGE® Novex® 4-12% Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (LC5800), and iBlot® Dry Blotting System (IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5% skim milk for 1 hour at room temperature. p53 was detected at 53 and 73 kDa using p53 Mouse Monoclonal Antibody (Product # 13-4000) at 1:1000 dilution in 2.5% skim milk at 4°C overnight on a rocking platform. Goat Anti-Mouse - HRP Secondary Antibody (Product # 62-6520) at 1:4000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106). Additional band might correspond to p73 which belongs to the p53 superfamily and exhibits similarity in structure and function.



View more figures on [thermofisher.com](https://www.thermofisher.com)

## 18 References

### Western Blot (11)

#### OncoTargets and therapy

#### CCNB1 Expedites the Progression of Cervical Squamous Cell Carcinoma via the Regulation by FOXM1.

"13-4000 was used in Western Blotting to explore the mechanism underlying CCNB1 regulation on cell cycle progression in cervical squamous cell carcinoma."

Authors: Li S,Liu N,Piao J,Meng F,Li Y

**Species**  
Human

**Dilution**  
1:1000

**Year**  
2020

#### Nature cell biology

#### Induction of LIFR confers a dormancy phenotype in breast cancer cells disseminated to the bone marrow.

"134000 was used in western blot to propose that leukemia inhibitory factor signaling confers a dormancy phenotype in breast cancer cells that have disseminated to bone"

Authors: Johnson RW,Finger EC,Olcina MM,Vilalta M,Aguilera T,Miao Y,Merkel AR,Johnson JR,Sterling JA,Wu JY, Giaccia AJ

**Species**  
Human

**Dilution**  
1:2000

**Year**  
2016

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

### Immunohistochemistry (Paraffin) (1)

#### Human molecular genetics

#### Heightened susceptibility to chronic gastritis, hyperplasia and metaplasia in Kcnq1 mutant mice.

"13-4000 was used in immunohistochemistry - paraffin section to use Kcnq1 mutant mice to study factor that promote gastric cancer"

Authors: Elso CM,Lu X,Culiat CT,Rutledge JC,Cacheiro NL,Generoso WM,Stubbs LJ

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2004

### Immunoprecipitation (1)

#### Molecular and cellular biology

#### p73alpha regulation by Chk1 in response to DNA damage.

"13-4000 was used in Western blotting following immunoprecipitation to provide evidence that p73alpha is a target of checkpoint kinase 1."

Authors: Gonzalez S,Prives C,Cordon-Cardo C

**Species**  
Human

**Dilution**  
1:1,500

**Year**  
2003

### More applications with references on thermofisher.com

[ChIP \(1\)](#)

[Misc \(4\)](#)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.