Phospho-p53 (Ser15) Recombinant Rabbit Monoclonal Antibody (14H61L24)

Product Details

Size	100 µg
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Туре	Antibody
Clone	14H61L24
Conjugate	Unconjugated
Immunogen	A peptide corresponding to amino acids 9-19 of P04637.
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532324

Applications	Tested Dilution	Publications
Western Blot (WB)	0.1-0.5 μg/mL	4 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	0.5-2 μg/mL	-
Flow Cytometry (Flow)	0.5-5 μg/1x10^6 cells	1 Publication
ChIP assay (ChIP)	1 µL	-
Fluorescence Resonance Energy Transfer (FRET)	Assay-dependent	-

Product Specific Information

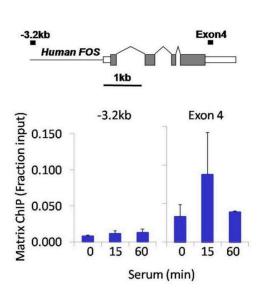
This antibody is predicted to react with chimpanzee, guinea pig, porcine, ovine, bovine, equine, feline, Rhesus monkey and Xenopus based on sequence homology.

Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

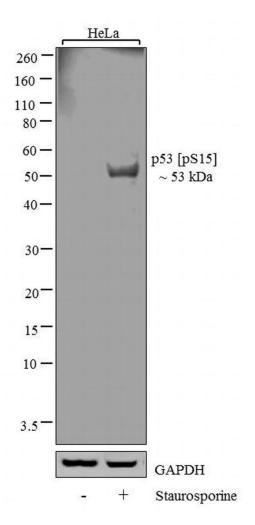
1

Product Images For Phospho-p53 (Ser15) Recombinant Rabbit Monoclonal Antibody (14H61L24)



Phospho-p53 (Ser15) Antibody (700439) in ChIP

Chromatin immunoprecipitation analysis of Phoshpo-p53 (pSer15) was performed using cross-linked chromatin from 1 x 10⁶ HCT116 human colon carcinoma cells treated with serum for 0, 15, and 60 minutes. Immunoprecipitation was performed using a multiplex microplate Matrix ChIP assay (see reference for Matrix ChIP protocol: http://www.ncbi.nlm.nih.gov /pubmed/22098709) with 1.0 µL/100 µL well volume of a Phoshpo-p53 (pSer15) rabbit monoclonal antibody (Product # 700439). Chromatin aliquots from ~1 x 10^5 cells were used per ChIP pull-down. Quantitative PCR data were done in quadruplicate using 1 µL of eluted DNA in 2 µL SYBR real-time PCR reactions containing primers to amplify -3.2kb upstream of the human FOS gene, or exon-4 of human FOS. PCR calibration curves were generated for each primer pair from a dilution series of sheared total genomic DNA. Quantitation of immunoprecipitated chromatin is presented as signal relative to the total amount of input chromatin. Results represent the mean +/- SEM for three experiments. A schematic representation of the FOS locus is shown above the data where boxes represent exons (grey boxes = translated regions, white boxes = untranslated regions), the zigzag lines represent introns, and the straight line represents upstream sequence. Regions amplified by FOS primers are represented by black bars. Data courtesy of the Innovators Program.



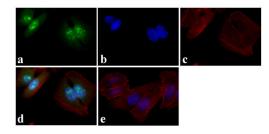
Phospho-p53 (Ser15) Antibody (700439)

Modulation of expression of target protein by cell treatment to demonstrate antibody specificity. Immunofluorescence analysis of Phospho-p53 (Ser15) using Anti-Phospho-p53 (Ser15) Antibody (14H61L24), Recombinant Rabbit Monoclonal (Product # 700439) shows increased expression of Phospho-p53 (Ser15) in HeLa cells treated with Staurosporine. {TM}

Phospho-p53 (Ser15) Antibody (700439) in ICC/IF

Immunofluorescent analysis of p53 (pS15) was done on 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with p53 (pS15) Recombinant Rabbit Monoclonal Antibody (Product # 700439) at 2 µg/mL and incubated for 3 hours at room temperature and then labeled with Alexa Fluor 488

2



Goat anti-Rabbit IgG Secondary Antibody (Product # A-11008) at a dilution of 1: 400 for 30 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 Alexa Fluor 594 Phalloidin (Product # A12381). Panel d is a merged image showing nuclear and cytoplasmic localization. Panel e shows no primary antibody control. The images were captured at 20X magnification.

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□ 6 References				
Vestern Blot (4)				
International journal of molecular sciences	Year			
Molecular Consequences of Depression Treatment: A Potential In Vitro	2021			
Mechanism for Antidepressants-Induced Reprotoxic Side Effects.	Species			
"700439 was used in Western Blot to suggest that antidepressants promote a telomere-focused DNA damage response	Mouse			
in germ cell lines, which broadens the established view of antidepressants' and neuroleptic drugs' toxicity and points to the need for further research in this topic with the use of in vivo models and human samples."	Dilution 1:1000			
Authors: Soek P,Mytych J,Tabcka-onczyska A,Koziorowski M	1.1000			
eLife	Year			
A small-molecule ICMT inhibitor delays senescence of Hutchinson-	2021			
Gilford progeria syndrome cells.	Species			
"700439 was used in Western Blot to raise hopes that ICMT inhibitors could be useful for treating children with HGPS."	Human			
Authors: Chen X,Yao H,Kashif M,Revêchon G,Eriksson M,Hu J,Wang T,Liu Y,Tüksammel E,Strömblad S,Ahearn IM, Philips MR,Wiel C,Ibrahim MX,Bergo MO	Dilution 1:1000			

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Immunohistochemistry (Paraffin) (1)

Journal of the American College of Surgeons	Year
Automated quantitative analysis of tissue microarray of 443 patients	2014
with colorectal adenocarcinoma: low expression of Bcl-2 predicts poor	Species
survival.	Human
"700439 was used in immunohistochemistry - paraffin section to investigate Bcl2 expression in colorectal	Dilution
adenocarcinoma"	1:400
Authors: Nicholson AD,Guo X,Sullivan CA,Cha CH	

Flow Cytometry (1)

Toxicological sciences : an official journal of the Society of Toxicology	Year 2014
Profiling dose-dependent activation of p53-mediated signaling pathways by chemicals with distinct mechanisms of DNA damage.	Species Human
"Published figure using Phospho-p53 (Ser15) monoclonal antibody (Product # 700439) in Flow Cytometry"	
Authors: Clewell RA,Sun B,Adeleye Y,Carmichael P,Efremenko A,McMullen PD,Pendse S,Trask OJ,White A,Andersen ME	

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