

Product Datasheet

p53 Antibody (PAb421) - Chimeric - Azide and BSA Free NBP2-62555

Unit Size: 0.2 mg

Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.

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NBP2-62555

p53 Antibody (PAb421) - Chimeric - Azide and BSA Free

Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.
Clonality	Monoclonal
Clone	PAb421
Preservative	0.02% Proclin 300
Isotype	IgG Kappa
Purity	Protein A purified
Buffer	PBS

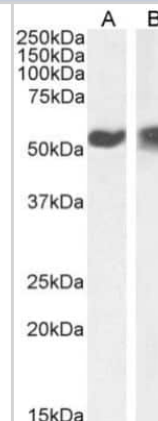
Product Description	
Description	Novus Biologicals Rabbit p53 Antibody (PAb421) - Chimeric - Azide and BSA Free (NBP2-62555) is a recombinant monoclonal antibody validated for use in IHC, WB, ELISA, Flow, ICC/IF and IP. Anti-p53 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	7157
Gene Symbol	TP53
Species	Human, Mouse, Rat, Monkey, Rabbit
Specificity/Sensitivity	Recognises the mammalian mutant and wild-type p53 protein and reacts with an epitope between amino acid residues 370 and 378 (near the C-terminus of the protein), corresponding to the sequence "KKGQSTSRHK".
Immunogen	Synthetic peptide corresponding to aa 371-380 of human p53.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, In vivo assay, Immunoprecipitation
Recommended Dilutions	Western Blot 1:100 - 1:2000, Flow Cytometry, ELISA 1:100 - 1:2000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin 1:10 - 1:500, Immunohistochemistry-Frozen 1:10 - 1:500, In vivo assay
Application Notes	This chimeric rabbit antibody was made using the variable domain sequences of the original murine IgG2a format, for improved compatibility with existing reagents, assays and techniques.

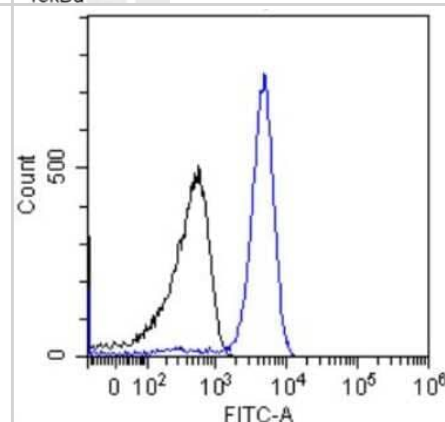


Images

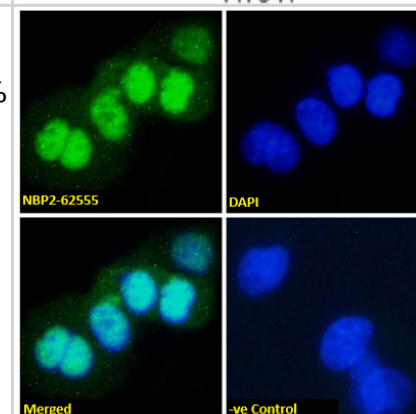
Western Blot: p53 Antibody (PAb421) - Chimeric [NBP2-62555] -
Western Blot using anti-p53 antibody PAb421 A431 cell nuclear (A) and cytoplasmic (B) extract (35ug protein in RIPA buffer) was resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of PAb421 (NBP2-62555) at 0.1 ug/ml before detection by an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The expected band size for p53 is 43.7 kDa, though due to the high number of proline residues in this protein runs at a size of ~53kDa (c.f. Ziemer et al., PMID: 7107651). NBP2-62555 successfully detected both human nuclear and cytoplasmic p53.



Flow Cytometry: p53 Antibody (PAb421) - Chimeric [NBP2-62555] -
Flow-cytometry using the anti-p53 antibody PAb421. Jurkat cells were stained with unimmunized rabbit IgG antibody (black line) or the rabbit-chimeric version of PAb421 (NBP2-62555, blue line) at a concentration of 10 ug/ml for 30 mins at RT. After washing, bound antibody was detected using anti-rabbit IgG JK (FITC-conjugate) antibody at 2 ug/ml and cells analyzed on a FACSCanto flow-cytometer.



Immunocytochemistry /Immunofluorescence: p53 Antibody (PAb421) - Chimeric - Azide and BSA Free [NBP2-62555] - Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton and stained with NBP2-62555 at 10ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (1ug/ml), showing nuclear staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom NBP2-62555, DAPI, merged channels and a negative control. The negative control was stained with unimmunized rabbit IgG followed by Alexa Fluor 488 secondary antibody.



Publications

Mirbaha H, Carrillo D, Mitui M et al. Cytoplasmic P53 Immunostaining With N-Terminus P53 Antibody And Absence Of Staining With C-Terminus P53 Antibody: A Report Of Two Pediatric Sarcomas With Distal Truncating TP53 Mutations Affecting Nuclear Localization Domain International journal of surgical pathology 2021-12-21 [PMID: 34931562]

Alzhanova D, Meyo JO, Juarez A, Dittmer DP The ORF45 protein of Kaposi Sarcoma-associated Herpesvirus (KSHV) is an inhibitor of p53 signaling during viral reactivation Journal of virology 2021-09-15 [PMID: 34523970]

Alzhanova D, Corcoran K, Bailey AG, et al. Novel modulators of p53-signaling encoded by unknown genes of emerging viruses PLoS pathogens 2021-01-01 [PMID: 33411764] (IP, Human)

Ling X, Jiang X, Li Y et al. Sequential Treatment of Bioresponsive Nanoparticles Elicits Antiangiogenesis and Apoptosis and Synergizes with a CD40 Agonist for Antitumor Immunity ACS nano 2020-12-21 [PMID: 33347262]

Zeng, H;Hu, M;Lu, Y;Zhang, Z;Xu, Y;Wang, S;Chen, M;Shen, M;Wang, C;Chen, F;Du, C;Tang, Y;Su, Y;Chen, S;Wang, J; microRNA 34a promotes ionizing radiation-induced DNA damage repair in murine hematopoietic stem cells FASEB J. 2019-03-28 [PMID: 30922079] (FLOW, Mouse)



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Products Related to NBP2-62555

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-34495PEP	p53 Recombinant Protein Antigen
1129-ER-050	ErbB2/Her2 [Unconjugated]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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