

p53 recombinant antibody

Anti-p53 [PAb421]

CATALOG # AAA71962	REACTIVITY Human, Monkey, Mouse, Rabbit, Rat	APPLICATIONS Western Blot, Immunoprecipitation, Flow Cytometry, Functional Assay, Immunofluorescence, ELISA
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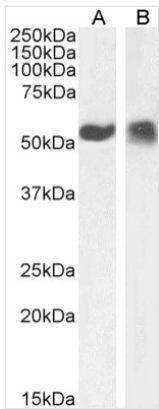
PRODUCT SYNONYMS

p53; Monoclonal Recombinant Antibody; Anti-p53 [PAb421]; Tumor suppressor p53; Cellular tumor antigen p53; p53 recombinant antibody

PRODUCT SPECIFICATIONS

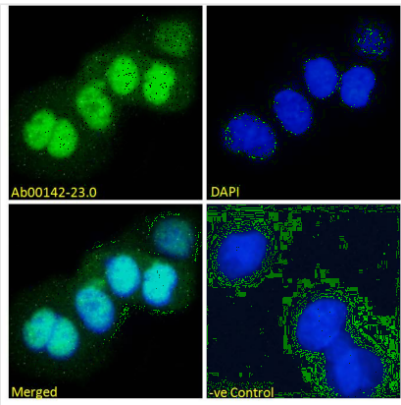
Reactivity	Human, Monkey, Mouse, Rabbit, Rat
Clonality	Monoclonal
Isotype	Rabbit IgG, kappa
Clone Number	PAb421
Specificity	Recognizes the mammalian mutant and wild-type p53 protein and reacts with an epitope between amino acid residues 370 and 378 (near the C-terminus of the protein).
Purity/Purification	Purified Protein A Affinity Purified
Sequence Length	393
Applicable Applications for p53 recombinant antibody	WB (Western Blot), IP (Immunoprecipitation), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ELISA
Immunogen	Synthetic peptide corresponding to aa 371-380 of human p53.
Antigen	p53
Antigen Description	Synthetic peptide corresponding to aa 371-380 of human p53.
Buffer Composition	PBS only with 0.02% Proclin 300.
Chimeric Use Statement	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.
Publication Note	Describes the production and subsequent characterisation of anti-p53 monoclonal antibody clones.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



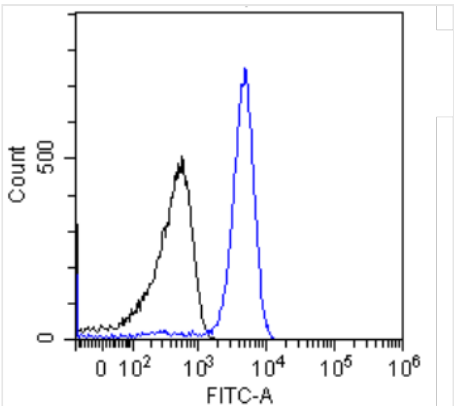
WB (Western Blot)

Western Blot using anti-p53 antibody 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 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). successfully detected both human nuclear and cytoplasmic p53.



IF (Immunofluorescence)

Immunofluorescence staining of fixed A431 with anti-p53 antibody Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton and stained with the chimeric rabbit IgG version 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 DAPI, merged channels and a negative control. The negative control was stained with unimmunized rabbit IgG followed by Alexa Fluor 488 secondary antibody.



FCM/FACS (Flow Cytometry)

Flow-cytometry using the anti-p53 antibody Jurkat cells were stained with unimmunized rabbit IgG antibody (black line) or the rabbit-chimeric version 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.

ADDITIONAL INFORMATION

Related Product Information for p53 recombinant antibody	Recombinant monoclonal antibody to p53. Manufactured using Recombinant Platform with variable regions (i.e. specificity) from the hybridoma PAb421.
Product Categories/Family for p53 recombinant antibody	Cancer
References	Harlow E, Crawford LV, Pim DC, Williamson NM. J Virol. 1981 Sep;39(3):861-9. PMID: 6169844

NCBI AND UNIPROT INFORMATION

NCBI GI #	23491729
NCBI GeneID	7157
Molecular Weight	24,401 Da
NCBI Official Full Name	P53
NCBI Official Synonym Full Names	tumor protein p53

NCBI Official Symbol	TP53
NCBI Official Synonym Symbols	P53; BCC7; LFS1; TRP53
NCBI Protein Information	cellular tumor antigen p53
UniProt Protein Name	Cellular tumor antigen p53
UniProt Gene Name	TP53
UniProt Synonym Gene Names	P53

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/p53-recombinant-antibody-clone-pab421-western-blot-immunoprecipitation-flow-cytometry-immunofluorescence-elisa/71962>