Datasheet for ABIN5668085

Recombinant anti-p53 antibody (AA 371-380)

3 Images

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Overview

Quantity:	200 µg
Target:	p53 (TP53)
Binding Specificity:	AA 371-380
Reactivity:	Human, Mouse, Rat, Monkey, Rabbit
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This p53 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), In vivo Studies (in vivo)

Product Details

Purpose:	Anti-p53 [PAb421], Mouse IgG2a, kappa
Immunogen:	Synthetic peptide corresponding to aa 371-380 of human p53.
Clone:	PAb421
Isotype:	IgG2a kappa
Specificity:	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".

Product Details

Cross-Reactivity:	Monkey, Mouse, Rabbit, Rat
Characteristics:	Original Species of Ab: Mouse Original Format of Ab: IgG2a
Purification:	Protein A affinity purified

Target Details

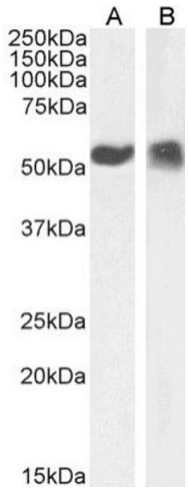
Target:	p53 (TP53)
Alternative Name:	p53 (TP53 Products)
Background:	Tumor suppressor p53, Cellular tumor antigen p53
UniProt:	P04637
Pathways:	p53 Signaling, MAPK Signaling, PI3K-Akt Signaling, Apoptosis, AMPK Signaling, Chromatin Binding, ER-Nucleus Signaling, Positive Regulation of Endopeptidase Activity, Hepatitis C, Protein targeting to Nucleus, Autophagy, Warburg Effect

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

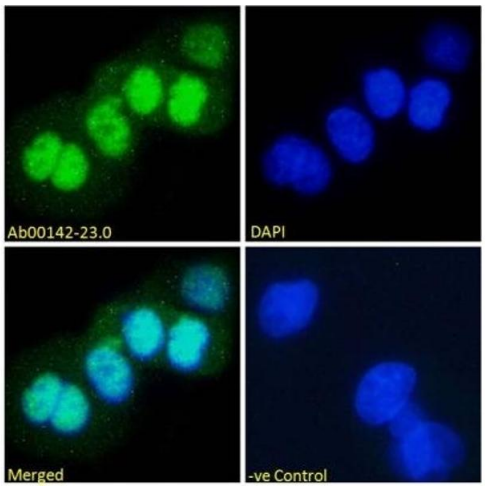
Handling

Concentration:	1 mg/mL
Buffer:	PBS with 0.02 % Proclin 300.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.



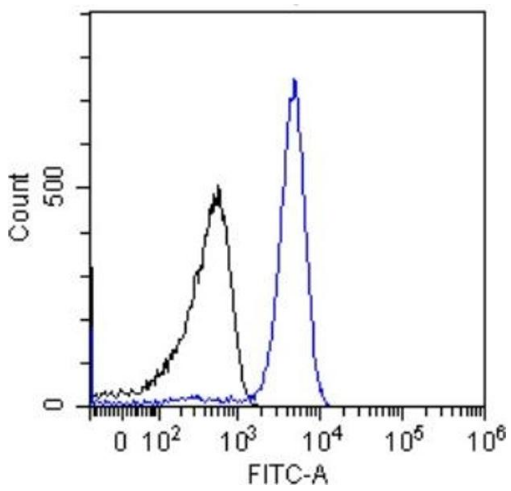
Western Blotting

Image 1. Western Blot using anti-p53 antibody (ABIN5668085) A431 cell nuclear (A) and cytoplasmic (B) extract (35µg protein in RIPA buffer) was resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of ABIN5668085 at 0.1 µg/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). ABIN5668085 successfully detected both human nuclear and cytoplasmic p53.



Immunofluorescence

Image 2. Immunofluorescence staining of fixed A431 with anti-p53 antibody (ABIN5668085) Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton and stained with the chimeric rabbit IgG version of at 10µg/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 ABIN5668085, DAPI, merged channels and a negative control. The negative control was stained with unimmunized rabbit IgG followed by Alexa Fluor® 488 secondary antibody.



Flow Cytometry

Image 3. Flow-cytometry using the anti-p53 antibody (ABIN5668085) Jurkat cells were stained with unimmunized rabbit IgG antibody (black line) at a concentration of 10 µg/ml for 30 mins at RT. After washing, bound antibody was detected using anti-rabbit IgG JK (FITC-conjugate) antibody at 2 µg/ml and cells analyzed on a FACSCanto flow-cytometer.

