

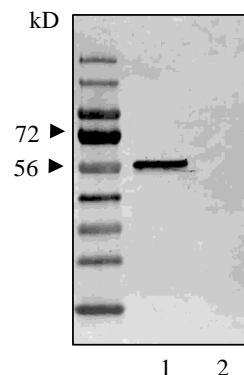


Anti-p53 Monoclonal Antibody (human)

p53, a DNA-binding, oligomerization domain- and transcription activation domain-containing tumor suppressor, upregulates growth arrest and apoptosis-related genes in response to stress signals, thereby influencing programmed cell death, cell differentiation, and cell cycle control mechanisms. p53 localizes in the nucleus, yet can be chaperoned to the cytoplasm by the negative regulator, MDM2. MDM2 is an E3 ubiquitin ligase that is upregulated in the presence of active p53, where it polyubiquitinates p53 for proteasome targeting. p53 fluctuates between latent and active DNA-binding conformations and is differentially activated through post-translational modifications, including phosphorylation and acetylation.

p53 antibody (PAb-122) is a mouse monoclonal anti-human IgG2b raised against SV40-transformed, 3T3 clone 4 mouse cells. The p53 epitope location was mapped to amino acids 371-378 of p53, and is recommended for detection of a conserved, denaturation-resistant determinant of the p53 protein of mouse, rat and human origin by WB, IP, IF and FCM.

p53 antibody (PAb-1620) is a mouse monoclonal anti-human IgG2a, k antibody that binds a conformational epitope which disappears in some mutant p53 or upon denaturation. Therefore, this antibody preferentially immunoprecipitates wild-type p53 and does not cause immunoprecipitation of mutant or denatured p53.



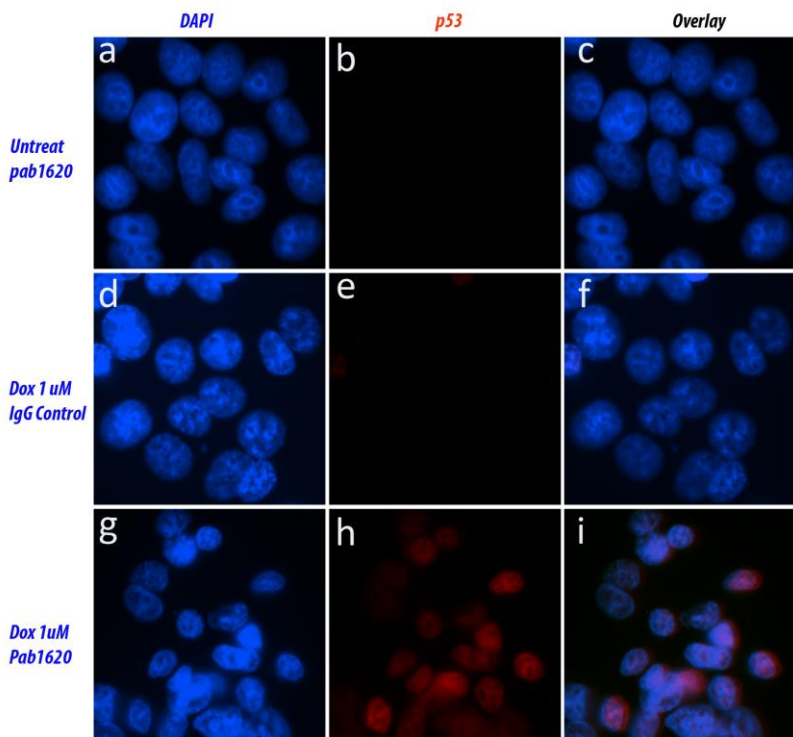
Anti-p53 (PAb 122) Western Blot analysis of p53 expression in whole cell lysates of MDA-MB-231 human breast cancer cells (lane 1) and colon cancer HCT-116 cells (lane 2).

References:

1. Gurney EG, Harrison RO and Fenno J (1980). *J. Virol.* 34 : 752-763.
2. Wade-Evans A and Jenkins JR (1985). *EMBO J.* 4 : 699-706.
3. Stephen, C. W., Helminen, P., and Lane, D. P. (1995). *J Mol Biol* 248, 58-78.
4. Cook A, Milner J. (1990). *Br J Cancer.* 61(4):548-52.
5. Peter L Wang, Fiona Sait and Greg Winter (2001). *Oncogene* 20 (18): 2318-24



Anti-p53 Monoclonal Antibody



Detection of wild-type p53 in immunofluorescence (IF) staining of PAb-1620. Indirect immunofluorescent detection was used to determine the induction of p53 by Doxorubicin (Dox). MCF-7 breast cancer cells were treated with or without 1 μ M doxorubicin for 24 hrs. The cells were incubated with the control IgG or anti-p53 PAb-1620 as indicated. Alexa568 goat anti-mouse IgG (red, **b, e, h**) was used for p53 detection and the DNA intercalating dye DAPI for the nucleus (blue, **a, d, g**). The merged panels are superimposed images of p53 and the nucleus (**c, f, i**).

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Product name	Catalog number	Product Description	Product size	Product price
Anti-p53 (PAb-122)	102101	Monoclonal antibody (human)	100 μ g	\$195.00
Anti-p53 (PAb-1620)	102201	Monoclonal antibody (human)	100 μ g	\$195.00

Caprico Biotechnologies also provides monoclonal antibodies against EAPII, EST1, Fli1, and VEG1. Please feel free to contact our customer service department for further information and for placing an order.

Caprico Biotechnologies, Inc. • 400 Pinnacle Way, STE 430 • Norcross, GA, 30071 • 678-691-2143

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