Datasheet for ABIN967409

anti-p53 antibody

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Overview

Quantity:	0.1 mg
Target:	p53 (TP53)
Reactivity:	Human, Mouse, Rat, Monkey, Hamster
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This p53 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS), Immunoprecipitation (IP)

Product Details

Brand:	BD Pharmingen™
Immunogen:	SV40-transformed mouse cell line BALB/c 3T3 clone 4 (B4)
Clone:	PAb 122
Isotype:	IgG2b
Cross-Reactivity:	Human, Rat (Rattus), Hamster, Monkey
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

	chromatography.

Target Details

Target:	p53 (TP53)
Alternative Name:	p53 (TP53 Products)
Background:	The gene for the nuclear phosphoprotein p53 is the most commonly mutated gene yet identified in human cancers.1 Missense mutations occur in tumors of the colon, lung, breast, ovary, bladder and several other organs. The mutant p53 is overexpressed in a variety of transformed cells and it forms specific complexes with several viral oncogenes including SV40 large T, E1B from adenovirus, and E6 from human papilloma virus. Wild type p53 plays a role as a checkpoint protein for DNA damage during the G1/S-phase of the cell cycle. However, it is still unclear, whether point mutated forms of p53 are simple null mutants and/or dominant negatively acting proteins. p53 migrates at a reduced molecular weight of 53 kDa. PAb 122 recognizes mammalian p53, including mouse, rat, hamster, monkey and human p53.2 Cells from the SV40-transformed mouse cell line BALB/c 3T3 clone 4 (B4) were used as immunogen. PAb 122 was originally evaluated by ELISA, immunoprecipitation, radioimmunoassays and indirect immunofluorescence of cultured cells.
Molecular Weight:	53 kDa
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:	Applications include immunoprecipitation (1-2 µg/1x10^6 cells), western blot analysis (2 µg/ml), immunofluorescence microscopy of cultured cells and flow cytometry. COS-7 SV40 transformed monkey kidney cells (ATCC CRL-1651) or another SV40-transformed cell line are suggested as positive controls for detecting p53. COS-7 cell lysate is optimized for a western blot control and comes ready to load on an SDS-PAGE gel.
Restrictions:	For Research Use only

Handling

Format:	Liquid

Handling

Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C.

Publications

Product cited in:

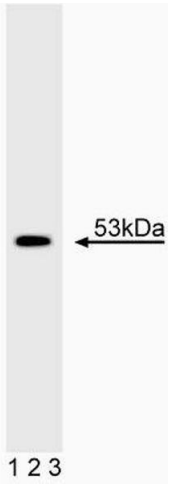
Legros, Lacabanne, dAgay, Larsen, Pla, Soussi: "Production of human p53 specific monoclonal antibodies and their use in immunohistochemical studies of tumor cells." in: **Bulletin du cancer**, Vol. 80, Issue 2, pp. 102-10, (1994) (PubMed).

Vogelstein: "Cancer. A deadly inheritance." in: **Nature**, Vol. 348, Issue 6303, pp. 681-2, (1991) (PubMed).

Diller, Kassel, Nelson, Gryka, Litwak, Gebhardt, Bressac, Ozturk, Baker, Vogelstein: "p53 functions as a cell cycle control protein in osteosarcomas." in: **Molecular and cellular biology**, Vol. 10, Issue 11, pp. 5772-81, (1990) (PubMed).

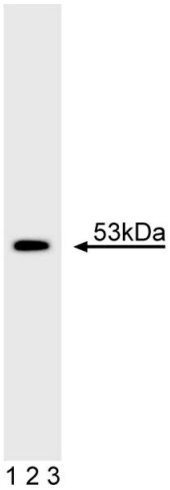
Yewdell, Gannon, Lane: "Monoclonal antibody analysis of p53 expression in normal and transformed cells." in: **Journal of virology**, Vol. 59, Issue 2, pp. 444-52, (1986) (PubMed).

Image 1.



Western Blotting

Image 2. Western blot analysis of p53. Lysate from COS-7 SV40 transformed monkey kidney cells was probed with anti-p53 (clone PAb 122, ABIN967409).



Western Blotting

Image 3.