Datasheet for ABIN967457

anti-p53 antibody

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Overview

Quantity:	0.1 mg
Target:	p53 (TP53)
Reactivity:	Human, Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This p53 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Formalin-fixed Sections) (IHC (f)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Brand:	BD Pharmingen™
Immunogen:	Human p53
Clone:	DO
Isotype:	IgG2a
Cross-Reactivity:	Cow (Bovine)
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. 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 wild-type p53 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. DO-1 reacts with human wild-type and mutant p53. It cross-reacts with bovine p53 but does not cross-react with mouse or rat p53. DO-1 recognizes an epitope between amino acids 1 and 45 of all known forms of human p53. Human recombinant p53 protein was used as immunogen.
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), and immunohistochemistry of frozen and formalin-fixed paraffin-embedded tissue sections (5-20 µg/ml). Positive control cell lines include COS-7 SV40 transformed monkey kidney cells (ATCC CRL-1651), SK-BR-3 human breast carcinoma cells (ATCC HTB-30), and A431 human vulval carcinoma cells (ATCC CRL-1555). Positive immunostaining is seen in a high proportion of breast and colon carcinomas. p53 staining is not typically detected in normal skin, brain, kidney, lung, stomach or breast tissue.
Comment:	Related Products: ABIN967389, ABIN968533
Restrictions:	For Research Use only

Handling

Format:	Liquid
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:

Friedrichs, Gluba, Eidtmann, Jonat: "Overexpression of p53 and prognosis in breast cancer." in: **Cancer**, Vol. 72, Issue 12, pp. 3641-7, (1994) (PubMed).

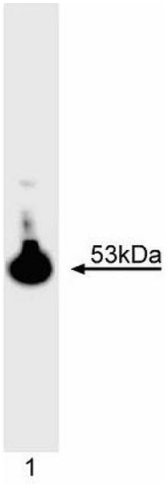
Xerri, Bouabdallah, Camerlo, Hassoun: "Expression of the p53 gene in Hodgkin's disease: dissociation between immunohistochemistry and clinicopathological data." in: **Human pathology**, Vol. 25, Issue 5, pp. 449-54, (1994) (PubMed).

Bartkova, Bartek, Vojtesek, Lukas, Rejthar, Kovarik, Millis, Lane, Barnes: "Immunochemical analysis of the p53 oncoprotein in matched primary and metastatic human tumours." in: **European journal of cancer (Oxford, England : 1990)**, Vol. 29A, Issue 6, pp. 881-6, (1993) (PubMed).

Vojt?sek, Bártek, Midgley, Lane: "An immunochemical analysis of the human nuclear phosphoprotein p53. New monoclonal antibodies and epitope mapping using recombinant p53. " in: **Journal of immunological methods**, Vol. 151, Issue 1-2, pp. 237-44, (1992) (PubMed).

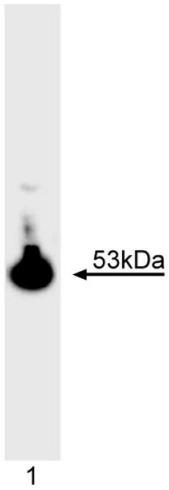
Vogelstein: "Cancer. A deadly inheritance." in: **Nature**, Vol. 348, Issue 6303, pp. 681-2, (1991) (PubMed).

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 DO-1, ABIN967457).



Western Blotting

Image 3.