Datasheet for ABIN967802

anti-p53 antibody (AA 195-393)

2 Images | 5 Publications

Go to Product page

Overview

Quantity:	50 µg
Target:	p53 (TP53)
Binding Specificity:	AA 195-393
Reactivity:	Human, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This p53 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Monkey p53 aa. 195-393
Clone:	80-p53
Isotype:	IgG2b kappa
Cross-Reactivity:	Human, Dog (Canine)
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. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	p53 (TP53)
Alternative Name:	p53 (TP53 Products)
Background:	The p53 protein is critical to regulation of normal cell growth and is a suppressor of tumor cell proliferation. Inactivation of p53 by a number of mechanisms, such as missense mutations or interaction with oncogenic viral or cellular proteins, can result in tumor progression. Mutations and/or allelic loss of the p53 gene is associated with a wide variety of human tumors. Known to have a role in transcriptional regulation, p53 suppresses various promoters containing TATA elements in an apparently sequence-independent fashion. p53 also binds to DNA in a sequence-specific manner via recognition of a 20 bp consensus-binding site. This interaction stimulates the expression of genes downstream of the p53 binding site. A number of genes that contain p53-binding sites have been identified, including MDM2, GADD45, and muscle creatine kinase. It is thought that MDM2 is a feedback regulator of p53. In addition, a p53-inducible gene, Cip1, has been identified and shown to suppress tumor cell growth in culture.
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

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤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.

Handling

Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

Publications

Product cited in:

Saitoh, Pizzi, Wang: "Perturbation of SUMOlation enzyme Ubc9 by distinct domain within nucleoporin RanBP2/Nup358." in: **The Journal of biological chemistry**, Vol. 277, Issue 7, pp. 4755-63, (2002) (PubMed).

Stahnke, Fulda, Friesen, Strauss, Debatin: "Activation of apoptosis pathways in peripheral blood lymphocytes by in vivo chemotherapy." in: **Blood**, Vol. 98, Issue 10, pp. 3066-73, (2001) (PubMed).

Natsugoe, Nakashima, Matsumoto, Xiangming, Okumura, Kijima, Ishigami, Takebayashi, Baba, Takao, Aikou: "Expression of p21WAF1/Cip1 in the p53-dependent pathway is related to prognosis in patients with advanced esophageal carcinoma." in: **Clinical cancer research : an official journal of the American Association for Cancer Research**, Vol. 5, Issue 9, pp. 2445-9, (1999) (PubMed).

Hurd, Khattree, Alban, Nag, Jhanwar, Dinda, Moudgil: "Hormonal regulation of the p53 tumor suppressor protein in T47D human breast carcinoma cell line." in: **The Journal of biological chemistry**, Vol. 270, Issue 48, pp. 28507-10, (1996) (PubMed).

Mercer: "Cell cycle regulation and the p53 tumor suppressor protein." in: **Critical reviews in eukaryotic gene expression**, Vol. 2, Issue 3, pp. 251-63, (1992) (PubMed).

Western Blotting

Image 1. Western blot analysis of p53 on A431 lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of p53.

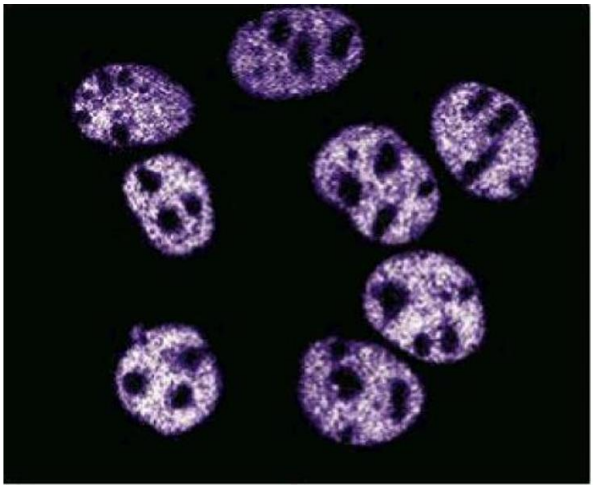

Image 2. A431