

Datasheet for ABIN306784
anti-p53 antibody (AA 16-25)



[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	p53 (TP53)
Binding Specificity:	AA 16-25
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This p53 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

Product Details

Immunogen:	Hybridoma produced by the fusion of splenocytes from mice immunized with full length Xenopus p53 protein and mouse myeloma cells.
Clone:	X77
Isotype:	IgG1
Cross-Reactivity:	Human, Mouse, Xenopus laevis
Characteristics:	p53 is a 53 kDa transcription factor that can inhibit cell cycle progression or induce apoptosis in response to stress or DNA damage. Disruption of the p53 signalling pathway through various mechanisms is the most common alteration in human cancer occurring in over half of all tumors. The p53 protein is short lived and expressed at low levels in normal cells but accumulates and/or is activated in cells that have undergone genotoxic damage or oncogene activation. Many tumor derived and transformed cell lines express elevated levels of mutant

Product Details

p53 protein. Other genes also implicated in the downstream effects as a result of p53 activation are: p21WAF1, GADD45, 14-3-3, bax, Fas/APO1, KILLER/ DR5, Tsp1, IGF-BP3 and others.

Purification: Protein A/G Chromatography

Target Details

Target: p53 (TP53)

Alternative Name: p53 (TP53 Products)

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: Detects p53 protein by Western blot at 1 to 10 µg/mL. Detects a band a approximately 53 kDa in HCT116 cell lysate. Optimal concentration should be evaluated by serial dilutions.

Restrictions: For Research Use only

Handling

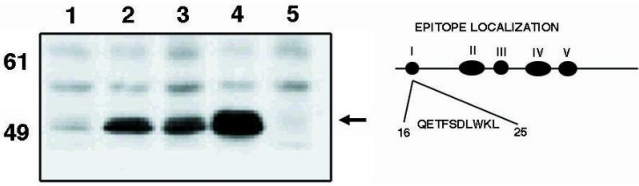
Buffer: Provided as solution in phosphate buffered saline with 0.08 % sodium azide

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: -20 °C

Storage Comment: Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles



Western Blotting

Image 1. Western blot analysis using Manti-p53 cln. X77 antibody at 10 µg/ml on HCT116 cell lysate (1), HCT116 cell lysate activated with adriamycin (2), p21^{-/-} cell lysate (3), P21^{-/-} cell lysate activated with ADR (4) and p53^{-/-} activated with ADR. ADR activates p53 in cells. Also shown is a graphic representation of the epitope location.