

Product datasheet for **AM05279PU-N**

p53 (TP53) (16-25) Mouse Monoclonal Antibody [Clone ID: X77]

Product data:

Product Type:	Primary Antibodies
Clone Name:	X77
Applications:	ELISA, IP, WB
Recommended Dilution:	<u>Western Blot:</u> 1-10 µg/ml, detects a band a approximately 53 kDa in HCT116 cell lysate. <u>ELISA.</u> <u>Immunoprecipitation.</u>
Reactivity:	Human, Mouse, Xenopus
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Hybridoma produced by the fusion of splenocytes from immunized with full length Xenopus p53 protein and mouse myeloma cells.
Specificity:	This antibody detects p53 protein.
Formulation:	PBS containing 0.08% Sodium Azide as preservative. State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	tumor protein p53
Database Link:	<u>Entrez Gene 7157 Human P04637</u>



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Background:

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 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.

Synonyms:

Cellular tumor antigen p53, Tumor suppressor p53, Phosphoprotein p53, NY-CO-13

Product images:

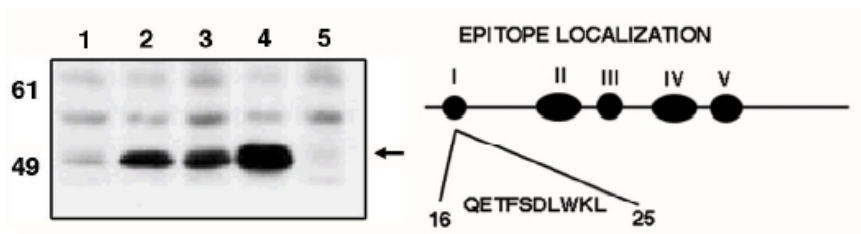


Figure 1. Western blot analysis using p53 antibody at 10 ug/ml on HCT116 cell lysate (Lane 1), HCT116 cell lysate activated with adriamycin (Lane 2), p21^{-/-} cell lysate (Lane 3), P21^{-/-} cell lysate activated with ADR (Lane 4) and p53^{-/-} activated with ADR (Lane 5). ADR activates p53 in cells. Also shown is a graphic representation of the epitope location.