

AM00166PU-N

Monoclonal Antibody to TP53 / p53 - Purified

Alternate names:	Cellular tumor antigen p53, NY-CO-13, Phosphoprotein p53, Tumor suppressor p53
Quantity:	0.1 mg
Concentration:	0.5 mg/ml
Background:	p53, a 53 kDa protein, binds to a DNA consensus sequence, the p53 response element, and regulates normal cell cycle events by activating transcription of genes involved either in progression through the cell cycle, or causing arrest in G1 when the genome is damaged. In most transformed and tumor cells the concentration of p53 is increased 5-1000 fold over the concentration in normal cells, principally due to the increased half-life (4 hrs) compared to that of wild-type (20 min). p53 localizes in the nucleus, but is detectable at the plasma membrane during mitosis and certain mutations also modulate cytoplasmic/nuclear distribution. p53 downregulates Bcl-2 expression and upregulates Bax expression, but may not always be necessary for apoptosis.
Uniprot ID:	P04637
NCBI:	NP_000537.3
GeneID:	7157
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), SM20P (for use in rat samples), AM03095PU-N
Clone:	C6A5
Immunogen:	Synthetic peptide corresponding to residue surrounding Ser20 of Human p53
Format:	State: Liquid purified IgG fraction. Purification: Affinity Chromatography. Buffer System: PBS containing 1 mg/ml BSA, 50% Glycerol and 1.5 mM Sodium Azide as preservative.
Applications:	Western Blot: 0.5-4 µg/ml. Immunoprecipitation: 4-8 µg/ml. Immunohistochemistry: 4-8 µg/ml. Immunocytochemistry: 4-8 µg/ml. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody recognizes the 53kDa p53.
Species Reactivity:	Tested: Human, Mouse and Rat.
Add. Information:	Mol. Weight: 53 kDa
Storage:	Store the antibody undiluted at -20°C or for long term storage (in aliquots) at -70°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Pictures:

Western blot analysis of p53 in Cos cell lysate.

