

AM10034PU-S

Monoclonal Antibody to TP53 / p53 - Purified

Alternate names:	Cellular tumor antigen p53, NY-CO-13, Phosphoprotein p53, Tumor suppressor p53
Quantity:	0.5 ml
Concentration:	0.2 mg/ml
Background:	P53, also known as protein 53 (TP53), is a transcription factor that regulates the cell cycle and hence functions as a tumor suppressor in a variety of tissue types and is involved in regulating cell growth, replication and apoptosis. It binds mdm2, SV40 T antigen and human papilloma virus E6 protein, p53 senses DNA damage and facilitate response. The human gene that encodes for p53 is TP53. The gene is named TP53 after the protein it codes for (TP53 is another name for p53). The gene is located on the human chromosome 17 (17p13.1. Mutation involving p53 is found in a variety of malignant tumors, including breast, ovarian, bladder, colon, lung and melanoma.
Uniprot ID:	P04637
NCBI:	NP_000537.3
GeneID:	7157
Host / Isotype:	Mouse / IgG2a
Recommended Isotype Controls:	AM03096PU-N
Clone:	BP53-12
Immunogen:	Recombinant Human wild type p53 protein. Remarks: Molecular weight of antigen: 53 kDa
Format:	State: Liquid purified Ig fraction Buffer System: PBS, pH 7.4 Preservatives: 0.05% Sodium Azide Stabilizers: 1% BSA
Applications:	Suitable for Immunohistochemistry and Immunocytochemistry (Frozen or Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections and cell smears). For IHC dilute concentrated antibody at 1/50-1/100, use streptavidin~biotin system or polymer system, incubate 30 minutes at room temperature. FFPE tissue section requires antigen retriever (boiling tissue in 10 mM citrate, pH 6.0 for 20 mins, followed by cooling at RT for 20 mins). Immunofluorescence. Flow Cytometry. <u>Recommended Positive Control:</u> Human colon Cancer. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody is specific for Human p53. Other species not tested. <u>Cellular Localization:</u> Nuclear.
Add. Information:	Clone name P53221 is the same as BP53-12

Storage:

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
This product is photosensitive and should be protected from light.
Shelf life: One year from despatch.

General Readings:

1. Vojtesek, B et.al. J Immunol. Methods. 151: 237-244, 1992
2. Bartek, J. et.al. J. Pathol. 169: 27-34, 1993.
3. Chen, JH, et. al. DNA Repair, 4: 1140-1148, 2005.