

## Product datasheet for **AM50304PU-T**

### **p53 (TP53) Mouse Monoclonal Antibody [Clone ID: BP53-12 + DO-7]**

#### **Product data:**

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Clone Name:           | BP53-12 + DO-7  |
| Applications:         | FC, IF, IHC, IP, WB   |
| Recommended Dilution: | <b>Flow Cytometry:</b> 0.5-1 µg/million cells.<br><b>Immunofluorescence:</b> 0.5-1 µg/ml.<br><b>Western Blotting:</b> 0.5-1 µg/ml.<br><b>Immunoprecipitation:</b> 0.5-1 µg/500 µg protein lysate.<br><b>Immunohistochemistry on Frozen and Formalin-Fixed Sections:</b> 0.5-1 µg/ml for 30 minutes at RT.<br>Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes.<br><b>Positive Control:</b> MDA-MB-231 Cells, Breast or Colon carcinoma. |
| Reactivity:           | Bovine, Human, Monkey   |
| Host:                 | Mouse   |
| Clonality:            | Monoclonal  |
| Immunogen:            | Recombinant human wild-type p53 protein (BP53-12) & Recombinant human wild type p53 protein expressed in E. coli (DO-7).  |
| Specificity:          | Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild form of p53 under denaturing and non-denaturing conditions. Its epitope maps within the N-terminus (aa 20-25) of p53 oncoprotein.<br><b>Cellular Localization:</b> Nuclear.   |
| Formulation:          | 10mM PBS<br>State: Purified<br>State: Liquid purified IgG fraction from Bioreactor Concentrate<br>Stabilizer: 0.05% BSA<br>Preservative: 0.05% Sodium Azide   |
| Concentration:        | lot specific  |
| Purification:         | Protein A/G Chromatography  |
| Conjugation:          | Unconjugated  |



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|                                |  |
|--------------------------------|--|
| <b>Storage:</b>                | Store undiluted at 2-8°C.  |
| <b>Stability:</b>              | Shelf life: one year from despatch.  |
| <b>Predicted Protein Size:</b> | 53 kDa   |
| <b>Gene Name:</b>              | tumor protein p53  |
| <b>Database Link:</b>          | <a href="#">Entrez Gene 716170 Monkey</a> <a href="#">Entrez Gene 7157 Human</a><br><a href="#">P04637</a> |

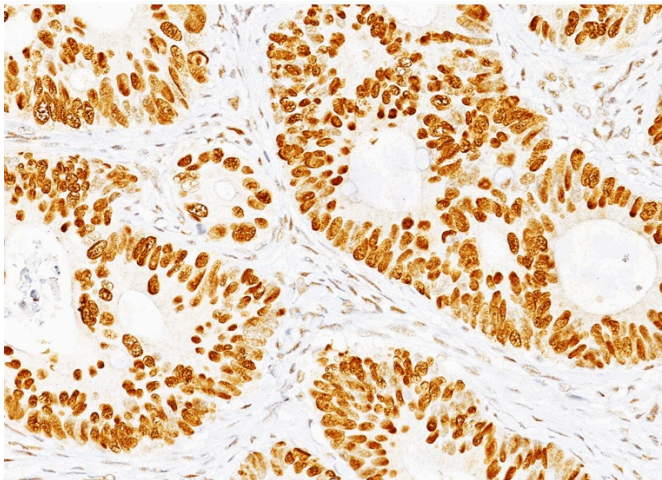
**Background:** P53 is a tumor suppressor gene expressed in a wide variety of tissue types and is involved in regulating cell growth, replication, and apoptosis. It binds to MDM2, SV40 T antigen and human papilloma virus E6 protein. Positive nuclear staining with p53 antibody has been reported to be a negative prognostic factor in breast carcinoma, lung carcinoma, colorectal, and urothelial carcinoma. Anti-p53 positivity has also been used to differentiate uterine serous carcinoma from endometrioid carcinoma as well as to detect intratubular germ cell neoplasia. Mutations involving p53 are found in a wide variety of malignant tumors, including breast, ovarian, bladder, colon, lung, and melanoma.

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

**Protein Families:** Druggable Genome, Stem cell - Pluripotency, Transcription Factors

**Protein Pathways:** Amyotrophic lateral sclerosis (ALS), Apoptosis, Basal cell carcinoma, Bladder cancer, Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, Glioma, Huntington's disease, MAPK signaling pathway, Melanoma, Neurotrophin signaling pathway, Non-small cell lung cancer, p53 signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, Small cell lung cancer, Thyroid cancer, Wnt signaling pathway

### Product images:



Formalin-Paraffin Human colon carcinoma stained with p53 Antibody (Clone BP53-12 + DO-7).