

Product datasheet for AM50177PU-S

OriGene Technologies, Inc.

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p53 (TP53) Mouse Monoclonal Antibody [Clone ID: SPM589]

Product data:

Product Type: Primary Antibodies

Clone Name: SPM589

Applications: FC, IF, IHC, IP, WB

Recommended Dilution: ELISA: Use BSA free Antibody for coating.

Flow Cytometry: 0.5-1 μg/million cells. **Immunofluorescence:** 1-2 μg/ml. **Western Blotting:** 0.5-1 μg/ml.

Immunoprecipitation: 1-2 μg/500 μg protein lysate.

Immunohistochemistry on Frozen and Formalin-Fixed Sections: 0.5-1 µg/ml for 30

minutes at RT.

Staining of formalin-fixed tissues requires boilin g tissue sections in 10mM citrate buffer, pH

6.0, f or 10-20 min followed by cooling at RT for 20 minutes. **Positive Control**: MDA-MB-231 Cells. Breast or Colon carcinoma.

Reactivity: Human
Host: Mouse
Isotype: IgG2a

Clonality: Monoclonal

Immunogen: Recombinant human wild-type p53 protein.

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.

Cellular Localization: Nuclear. **Negative Species:** Mouse, Rat.

Formulation: 10mM PBS

State: Purified

State: Liquid purified IgG fraction from Bioreactor Concentrate

Stabilizer: 0.05% BSA

Preservative: 0.05% Sodium Azide

Concentration: lot specific

Purification: Protein A/G Chromatography



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Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: 53 kDa

Gene Name: tumor protein p53

Database Link: Entrez Gene 7157 Human

P04637

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

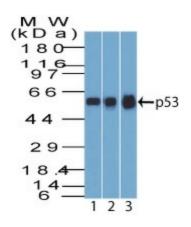
Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

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,

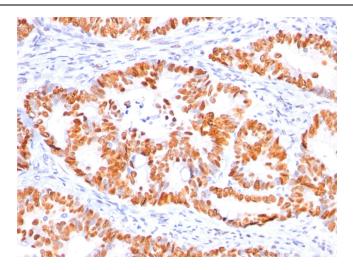
Small cell lung cancer, Thyroid cancer, Wnt signaling pathway

Product images:



Western blot analysis of p53 1) A431 2) MCF7 and 3) HEK293 lysate probed with p53 Antibody (Clone SPM589).





Formalin-Paraffin Human colon carcinoma stained with p53 Antibody (Clone SPM589).