

## Product datasheet for **TA327920**

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

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	BP53-12
<b>Applications:</b>	IHC, WB
<b>Recommended Dilution:</b>	WB, IHC
<b>Reactivity:</b>	Human, Primate
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG2a, kappa
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Amino acid: 20-25 of human p53
<b>Formulation:</b>	This antibody is provided in Tris-buffered solution, pH 8.0, containing 0.09% sodium azide at 0.5 mg/ml.
<b>Concentration:</b>	lot specific
<b>Purification:</b>	This antibody was purified by affinity chromatography.
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	53 kD
<b>Gene Name:</b>	tumor protein p53
<b>Database Link:</b>	<a href="#">NP_000537</a> <a href="#">Entrez Gene 7157 Human</a> <a href="#">P04637</a>



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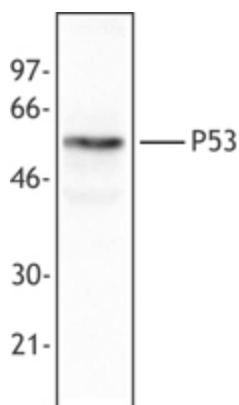
**Background:** p53 is a 53 kD protein that forms tetramers and functions as a tumor suppressor and transcriptional activator of genes that inhibit growth and/or invasion, cell cycle checkpoint after irradiation, DNA repair, apoptotic induction, signal transduction, and cell adhesion. This protein is localized to the nucleus when activated and can be upregulated by genotoxic or other cellular stresses. p53 is modified by phosphorylation, acetylation, ribosylation, ubiquitination, and sumoylation; ubiquitination targets p53 for degradation via mdm2. This protein interacts with a variety of proteins including mdm2, mdmx, topoisomerase I, PML3, Bcl-XL, Bcl-2, Chk1, JNK, p38, HIPK2, CK2, DNA-PK, p300/CBP, PCAF, PARP1, and HDAC1-3. Mutant p53 associates with p63 and p73.

**Synonyms:** BCC7; LFS1; P53; TRP53

**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:



MCF-7 cell extract was resolved by electrophoresis, transferred to nitrocellulose and probed with monoclonal anti-p53 (clone BP53-12) antibody. Proteins were visualized using a goat anti-mouse secondary conjugated to HRP and a chemiluminescence detection system.

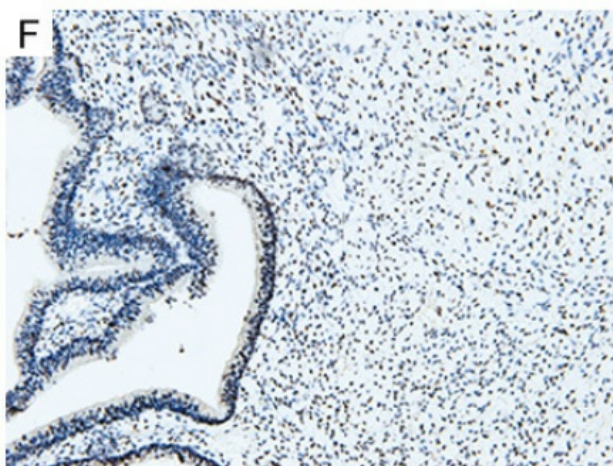


Figure from citation: Immunohistochemistry of TP53 protein level by using anti-TP53 antibody in human biphasic pulmonary blastoma tissues, TP53 was partially positive for both components (DAB, magnification  $\times 200$ ). [View Citation](#)