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Product datasheet for CF502801

p53 (TP53) Mouse Monoclonal Antibody [Clone ID: OTI3F5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3F5
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:500~2000, IHC 1:150, IF 1:100, FLOW 1:100
Reactivity:	Human, Monkey
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human TP53 (NP_000537) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	43.5 kDa
Gene Name:	tumor protein p53
Database Link:	NP_000537 Entrez Gene 716170 MonkeyEntrez Gene 7157 Human P04637

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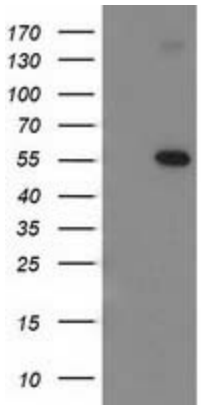
Background: The protein encoded by this gene is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated by, and mediates the responses of many cell ligands, such as IL2, IL3, IL7 GM-CSF, erythropoietin, thrombopoietin, and different growth hormones. Activation of this protein in myeloma and lymphoma associated with a TEL/JAK2 gene fusion is independent of cell stimulus and has been shown to be essential for the tumorigenesis. The mouse counterpart of this gene is found to induce the expression of BCL2L1/BCL-X(L), which suggests the antiapoptotic function of this gene in cells. [provided by RefSeq]

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:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY TP53 ([RC200003], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TP53. Positive lysates [LY400186] (100ug) and [LC400186] (20ug) can be purchased separately from OriGene.

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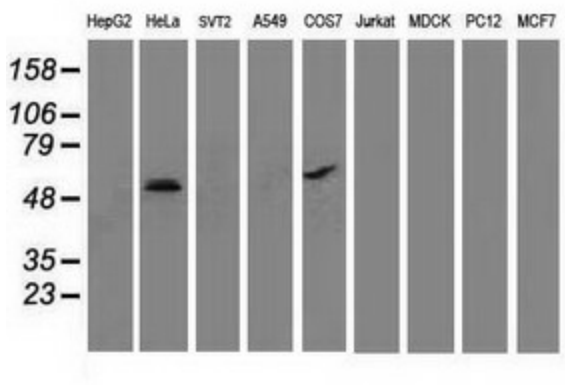
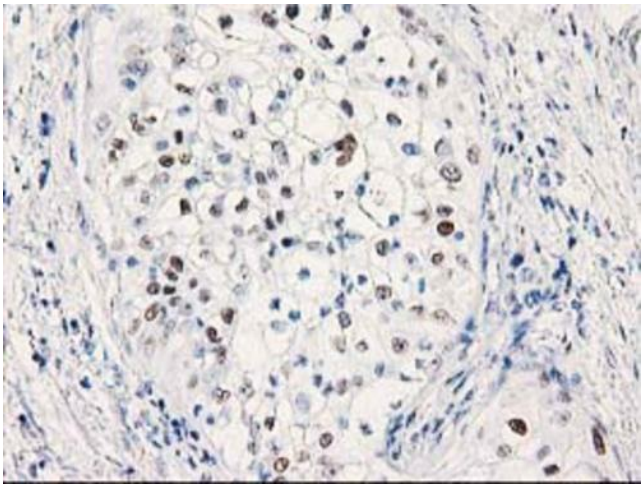
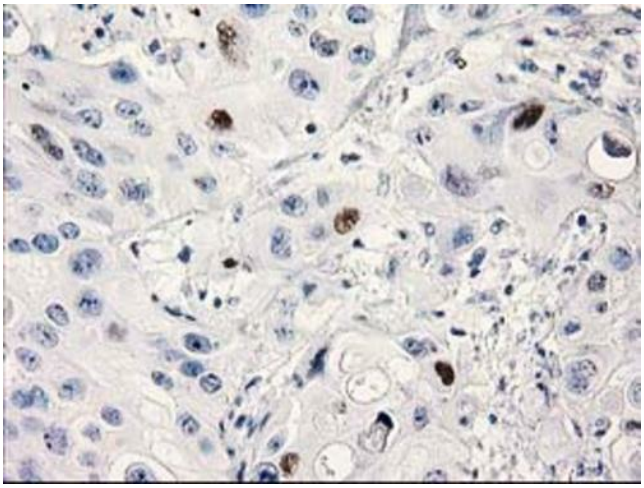


Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-TP53 monoclonal antibody.



Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-TP53 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502801])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-TP53 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502801])

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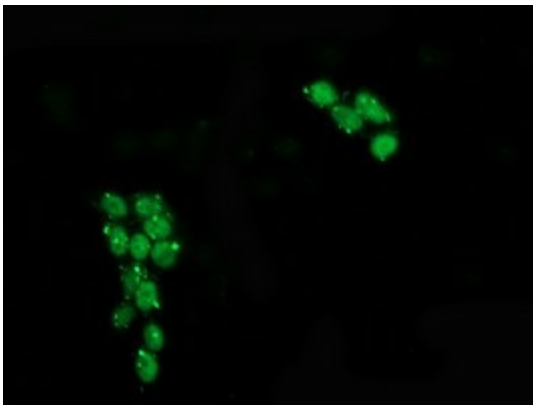
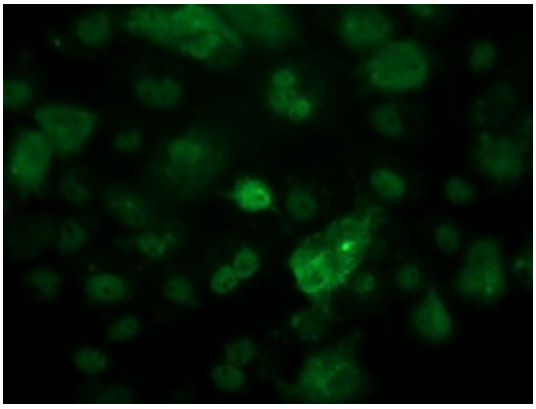
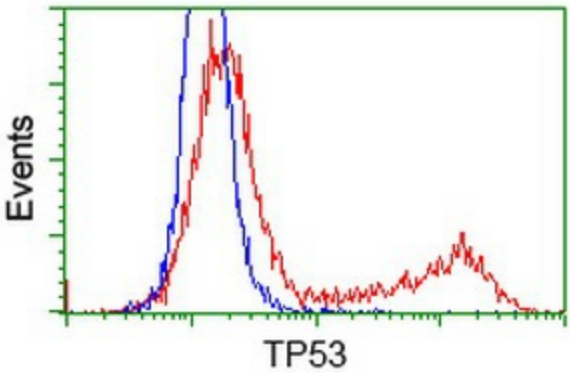


Anti-TP53 mouse monoclonal antibody ([TA502801]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY TP53 ([RC200003]).



Immunofluorescent staining of HeLa cells using anti-TP53 mouse monoclonal antibody ([TA502801]).



HEK293T cells transfected with either [RC200003] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-TP53 antibody ([TA502801]), and then analyzed by flow cytometry.

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