OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA321153S

p53 (TP53) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 500-2000 WB positive control: HT29, HepG2, Hela, 231 cell lysates
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 1-233 amino acids of human tumor protein p53
Formulation:	PBS pH7.3, 0.05% NaN3, 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	44 kDa
Gene Name:	tumor protein p53
Database Link:	NP_000537 Entrez Gene 7157 Human P04637

View online »

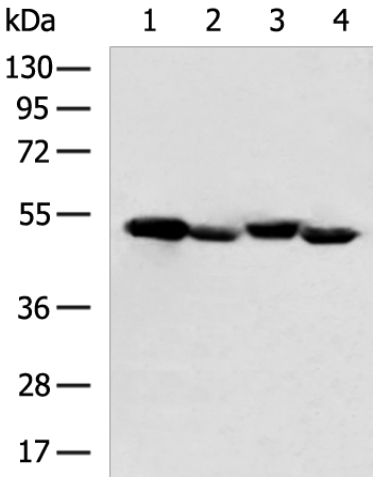
Background: This gene encodes tumor protein p53; which responds to diverse cellular stresses to regulate target genes that induce cell cycle arrest; apoptosis; senescence; DNA repair; or changes in metabolism. p53 protein is expressed at low level in normal cells and at a high level in a variety of transformed cell lines; where it's believed to contribute to transformation and malignancy. p53 is a DNA-binding protein containing transcription activation; DNA-binding; and oligomerization domains. It is postulated to bind to a p53-binding site and activate expression of downstream genes that inhibit growth and/or invasion; and thus function as a tumor suppressor. Mutants of p53 that frequently occur in a number of different human cancers fail to bind the consensus DNA binding site; and hence cause the loss of tumor suppressor activity. Alterations of this gene occur not only as somatic mutations in human malignancies; but also as germline mutations in some cancer-prone families with Li-Fraumeni syndrome. Multiple p53 variants due to alternative promoters and multiple alternative splicing have been found. These variants encode distinct isoforms; which can regulate p53 transcriptional activity.

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:



Gel: 8%SDS-PAGE
Lysate: 40 µg
Lane 1-4: HT29
HepG2
Hela
231 cell lysates
Primary antibody: [TA321153] (TP53 Antibody) at dilution 1/400
Secondary antibody: Goat anti rabbit IgG at 1/5000 dilution
Exposure time: 30 seconds