



## p53 Polyclonal Antibody

E20-53380

**Catalog Number:**E20-53380**Product name:**p53 Polyclonal Antibody**Amount:**100ul**Applications:**WB,IF,IHC-p**Reactivity:**Mouse,Rat**Gene Name:**TP53**Protein Name:**Cellular tumor antigen p53**Human Gene Id:**7157**Human Swiss Prot No:**P04637**Mouse Swiss Prot No:**P02340**Rat Swiss Prot No:**P10361**Immunogen:**Synthetic Peptide of p53**Specificity:**The antibody detects endogenous p53 protein.**Formulation:**PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.**Source:**Rabbit**Dilution:**WB: 1:1000-2000 IHC: 1:500-1000**Purification:**The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.**Storage Stability:**-20°C/1 year**Other Names:**TP53; P53; Cellular tumor antigen p53; Antigen NY-CO-13; Phosphoprotein p53; Tumor suppressor p53**Observed Band(KD):**53**Background:**tumor protein p53(TP53) Homo sapiens This gene encodes a tumor suppressor protein containing transcriptional activation, DNA binding, and oligomerization domains. The encoded protein responds to diverse cellular stresses to regulate expression of target genes, thereby inducing cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. Mutations in this gene are

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associated with a variety of human cancers, including hereditary cancers such as Li-Fraumeni syndrome. Alternative splicing of this gene and the use of alternate promoters result in multiple transcript variants and isoforms. Additional isoforms have also been shown to result from the use of alternate translation initiation codons (PMIDs: 12032546, 20937277). [provided by RefSeq, Feb 2013].

**Function:**cofactor:Binds 1 zinc ion per subunit.,**disease:**Defects in TP53 are a cause of choroid plexus papilloma [MIM:260500]. Choroid plexus papilloma is a slow-growing benign tumor of the choroid plexus that often invades the leptomeninges. In children it is usually in a lateral ventricle but in adults it is more often in the fourth ventricle. Hydrocephalus is common, either from obstruction or from tumor secretion of cerebrospinal fluid. If it undergoes malignant transformation it is called a choroid plexus carcinoma. Primary choroid plexus tumors are rare and usually occur in early childhood.,**disease:**Defects in TP53 are a cause of Li-Fraumeni syndrome (LFS) [MIM:151623].

**Subcellular Location:**Nuclear chromatin,nucleus,nucleoplasm,replication fork,transcription factor TFIID complex,nucleolus,cytoplasm,mitochondrion,mitochondrial matrix,endoplasmic reticulum,cytosol,integral component of membrane,nuclear matrix.

**Expression:**Blood,Brain,Classical Hodgkin Lymphoma,Esophageal squamous cell carcinoma,Glial cell.

