



p53 (Mono Methyl Lys372) mouse mAb

Catalog No	BYmab-00042
Isotype	lgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	TP53 P53
Protein Name	p53 (Mono Methyl Lys372)
Immunogen	Synthesized peptide derived from human p53 (Mono Methyl Lys372)
Specificity	This antibody detects endogenous levels of Human,Mouse,Rat p53 (Mono Methyl Lys372)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Cellular tumor antigen p53 (Antigen NY-CO-13;Phosphoprotein p53;Tumor suppressor p53)
Observed Band	53kD
Cell Pathway	Cytoplasm . Nucleus . Nucleus, PML body . Endoplasmic reticulum . Mitochondrion matrix . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Recruited into PML bodies together with CHEK2 (PubMed:12810724). Translocates to mitochondria upon oxidative stress (PubMed:22726440). Translocates to mitochondria in response to mitomycin C treatment (PubMed:27323408); [Isoform 1]: Nucleus . Cytoplasm. Predominantly nuclear but localizes to the cytoplasm when expressed with isoform 4.; [Isoform 2]: Nucleus. Cytoplasm. Localized mainly in the nucleus with minor staining in the cytoplasm.; [Isoform 3]: Nucleus. Cytoplasm. Localized in the nucleus in most cells but found in the cytoplasm in some cells.; [Isoform 4]: Nucleus. Cytoplasm. Predominantly nuclear but translocates to the cy
Tissue Specificity	Ubiquitous. Isoforms are expressed in a wide range of normal tissues but in a tissue-dependent manner. Isoform 2 is expressed in most normal tissues but is not detected in brain, lung, prostate, muscle, fetal brain, spinal cord and fetal liver. Isoform 3 is expressed in most normal tissues but is not detected in lung, spleen,
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	testis, fetal brain, spinal cord and fetal liver. Isoform 7 is expressed in most normal tissues but is not detected in prostate, uterus, skeletal muscle and breast. Isoform 8 is detected only in colon, bone marrow, testis, fetal brain and intestine. Isoform 9 is expressed in most normal tissues but is not detected in brain, heart, lung, fetal liver, salivary gland, breast or intestine.
Function	protein import into nucleus, translocation, cell cycle checkpoint, DNA damage checkpoint, negative regulation of transcription from RNA polymerase II promoter, regulation of cell growth, in utero embryonic development, cell activation, release of cytochrome c from mitochondria, cell activation during immune response, lymphocyte activation during immune response, T cell activation during immune response, T cell proliferation during immune response, B cell lineage commitment, response to tumor cell, T cell lineage commitment, leukocyte activation during immune response, immune system development, leukocyte differentiation, DNA metabolic process, regulation of DNA replication, DNA repair, base-excision repair, nucleotide-excision repair, double-strand break repair, transcription, transcription, DNA-dependent, regulation of transcription, DNA-dependent, regulation of transcription from RNA po
Background	cofactor:Binds 1 zinc ion per subunit, disease:Defects in TP53 are a cause of choroid plexus papilloma [MIM.260500]. Choroid plexus that often invades the leptomeninges. In children it is usually in a lateral ventricle but in adults its more often in the fourth ventricle. Hydrocephalus is common, either from obstruction or from tumor secretion of cerebrospinal fluid. (fi tundergoes 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]. LFS is an autosomal dominant familial cancer syndrome that in its class: form is defined by the existence of a proband affected by a sarcoma before 45 years with a first degree relative affected by any tumor before 45 years and another first degree relative with any tumor before 45 years or a sarcoma at any age. Other clinical definitions for LFS have been proposed (PubMed:8118819 and PubMed:8718514) and called Li-Fraumeni like syndrome (LFL). In these families affected relatives develop a diverse set of malignancies at unusually early ages. Four types of cancers account for 80% of tumors occurring in TP53 germline mutation carriers: breast cancers, soft tissue and bone sarcomas, brain tumors (astrocytomas) and adrencortical carinomas. Less frequent tumors include chorid plexus carcinoma or papilloma before the age of 15, habdomyosarcoma before the age of 5, leukemia, Wilms tumor, malignant phyllodes tumor, colorectal and gastric cancers, disease:Defects in TP53 are a cause of lung cancer [MIM.211980], disease:Defects in TP53 are a cause of one form of hereditary adrencocritical acrinoma (ADCC) [MIM.22300]. ADCC is a rare childhood tumor, representing about 0.4% of childhood tumors, with a high incidence of associated tumors. ADCC occurs with increased frequency in patients with the Beckwith-Wiedemann syndrome [MIM.130650] and is a complaced by a metaplasia; also known as Barrett esophagus. It is a condition in whi

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	seems to be mediated either by stimulation of BAX and FAS antigen expression, or by repression of Bcl-2 expression, function:Acts as a tumor suppressor in many tumor types; induces growth arrest or apoptosis depending on the physiological circumstances and cell type. Involved in cell cycle regulation as a trans-activator that acts to negatively regulate cell division by controlling a set of genes required for this process. One of the activated genes is an inhibitor of cyclin-dependent kinases. Apoptosis induction seems to be mediated either by stimulation of BAX and FAS antigen expression, or by repression of Bcl-2 expression. Implicated in Notch signaling cross-over.,online information:P53 entry,online information:Somatic and gemline TP53 mutations in human cancers,online information:The Singapore human mutation and polymorphism database, PTM:Acetylated. Acetylation of Lys-382 by SIRT1 impairs its ability to induce proapoptotic program and modulate cell senescence., PTM:Demethylation of di-methylated Lys-370 by KDM1/LSD1 prevents interaction with TP53BP1 and represses TP53-mediated transcriptional activation., PTM:Dephosphorylated by PP2A. SV40 small T antigen inhibits the dephosphorylation by the AC form of PP2A, PTM:Memethylated at Lys-372 by SETD7, leading to stabilize it and increase transcriptional activation. Monomethylated at Lys-372 by SMVD2, leading to decrease DNA-binding activity and subsequent transcriptional regulation at Lys-370, PTM:Phosphorylated by PTM:Desphorylation at Ser-9 by HIPK4 increases repression activity on BIRC5 promoter. Phosphorylated on Thr-55 by TAF1, which may prevent the interaction with MDM2. Phosphorylated on Thr-55 by TAF1, which promotes MDM2-mediated degradation. Phosphorylated by VHPK1 (By similarity). Phosphorylated on Ser-36 by HIPK2 (upon UV irradiation. Phosphorylated on Ser-36 by HIPK2 and AXIN1. Probably patt of a complex consisting of TP53, HIPK2 and AXIN1. By SMRL1, which may prevent the interaction with MDM2. Phosphorylated on Ser-46 by HIPK2 (upon UV irradiatio
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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