

**MonoMethyl-p53 (Lys370) (4C7) Mouse mAb**

db6604

Package : 50μL 100μL

**Product Name** : MonoMethyl-p53 (Lys370) (4C7) Mouse mAb**Cat.No.:** db6604**Synonyms** : Cellular tumor antigen p53; Cys 51 stop; Tp53; Tumor protein p53**Application** : IHC-P**Reactivity** : Human, Rat, Mouse**Host species** : Mouse**Background**

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. In cooperation with mitochondrial PPIF is involved in activating oxidative stress-induced necrosis; the function is largely independent of transcription. Induces the transcription of long intergenic non-coding RNA p21 (lincRNA-p21) and lincRNA-Mkn1. LincRNA-p21 participates in TP53-dependent transcriptional repression leading to apoptosis and seem to have to effect on cell-cycle regulation. Implicated in Notch signaling cross-over. Prevents CDK7 kinase activity when associated to CAK complex in response to DNA damage, thus stopping cell cycle progression. Isoform 2 enhances the transactivation activity of isoform 1 from some but not all TP53-inducible promoters. Isoform 4 suppresses transactivation activity and impairs growth suppression mediated by isoform 1. Isoform 7 inhibits isoform 1-mediated apoptosis. Regulates the circadian clock by repressing CLOCK-ARNTL/BMAL1-mediated transcriptional activation of PER2 (PubMed/24051492).

**Immunogen**

Synthetic peptide conjugated to KLH

**Gene ID**

7157

**Swiss Prot**

P04637

**Synonyms**

Cellular tumor antigen p53; Cys 51 stop; Tp53; Tumor protein p53

**Reactivity**

Human, Rat, Mouse

**Application**

IHC-P

**Recommended dilution**

IHC: 1:500-1:1000

**Calculated MW**

53 kDa

|                   |  |
|-------------------|--|
| Host species      | Mouse  |
| Clonality         | Monoclonal   |
| Clonality No.     | 4C7-7E1-8E2  |
| Isotype           | IgG1   |
| Purity            | Affinity Purification  |
| Conjugation       | Un-conjugated  |
| Storage Stability | Store at -20°C. Supplied in PBS, 50% Glycerol(pH 7.3), 0.02% sodium azide and 0.5% BSA .<br>Stable for 12 months from date of receipt.   |
| □                 | Immunohistochemistry analysis of paraffin-embedded Human Lung Carcinoma using MonoMethyl-p53 (Lys370) (4C7) antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval. |