

Code No. 10041

**Anti-
P53 (Pb53-12) Mouse IgG MoAb**Volume : 200 µg

Introduction : At first, p53 was found not as a tumor suppressor gene product but as a cell protein of 53kDa that bind with the large T antigen of DNA type tumor virus SV40. Though at that time *p53* was considered to be an oncogene because p53 has a transforming activity, afterwards, it has been reported that a normal *p53* gene (wild type) functions as a tumor suppressor gene and the mutation type has a transforming activity.

Moreover, it has been reported that *p53* is a cause gene of Li-Fraumeni syndrome which causes various cancers genetically, and it is considered that abnormality of the *p53* gene (mutation type) is deeply involved in canceration because the mutations of *p53* are widely and frequently appeared in nonhereditary tumors as well. Additionally, it is thought that p53 stops cell cycle for DNA repair or causes apoptosis in order not to transmit a damaged genetic code in response to DNA damage by radiation or medicine, etc. Biochemically, p53 acts as a transcription factor that works in the form of tetramer (it is formed by the interaction of dimers that combined in C-end area), and binds to specific base sequence and then activate the transcription. *GADD45*, *MDM2*, *MCK*, *p21/WAF*, and *cyclin G* genes, etc. are clarified as targets.

Antigen : Recombinant human p53 protein**Source** : Mouse-Mouse hybridoma**Clone** : Bp53-12 **Subclass** : IgG2a**Purification** : Affinity purified with protein A**Form** : Lyophilized product from PBS (without BSA and NaN₃)**How to use** : 1 mL deionized water will be added to the product, then its concentration comes to 200 µg/mL.**Stability** : Lyophilized product, 5 years at 2 – 8 °C
: Solution, 2 years at –20 °C**Application** : This antibody can be used for immunohistochemistry with formalin fixed paraffin embedded tissues after epitope retrieval pretreatment by microwave (10min, 10mM citrate buffer, pH 6.0). The optimal concentration is 2 - 5 µg/mL, however, the concentration should be optimized by each laboratory.
: This antibody can be used for western blotting at 2 - 5 µg/mL.**Specificity** : Reacts with both wild-type and mutant p53, does not cross-react with mouse or rat.

For research use only, not for use in diagnostic procedures.