

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.

Distributed by:

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