Technical Data Sheet

Purified Mouse Anti-p53

Product Information

Material Number: 610183
Size: 50 µg
Concentration: 250 µg/ml
Clone: 80/p53
Immunogen: Monkey p53 aa. 195-393
Isotype: Mouse IgG2b, κ
Reactivity:
QC Testing: Human
Tested in Development: Dog
Target MW:
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

The p53 protein is critical to regulation of normal cell growth and is a suppressor of tumor cell proliferation. Inactivation of p53 by a number of mechanisms, such as missense mutations or interaction with oncopgenic viral or cellular proteins can result in tumor progression. Mutations and/or allelic loss of the p53 gene is associated with a wide variety of human tumors. Known to have a role in transcriptional regulation, p53 suppresses various promoters containing TATA elements in an apparently sequence-independent fashion. p53 also binds to DNA in a sequence-specific manner via recognition of a 20 bp consensus-binding site. This interaction stimulates the expression of genes downstream of the p53 binding site. A number of genes that contain p53-binding sites have been identified, including MDM2, GADD45, and muscle creatine kinase. It is thought that MDM2 is a feedback regulator of p53. In addition, a p53-inducible gene, Cip1, has been identified and shown to suppress tumor cell growth in culture.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20°C.

Application Notes

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References


