p53- BP-53-12

Clone	BP-53-12
Source	Mouse Monoclonal
Cat #	PM101-6ml RTU PM101-3ml RTU CM101-0.1ml Conc CM101-0.5ml Conc
Regulatory Status	IVD

Intended Use:

This antibody is intended for use to qualitatively identify p53 antigen by light microscopy in formalin fixed, paraffin embedded tissue sections using immunohistochemical detection methodology. Interpretation of any positive or negative staining must be complemented with the evaluation of proper controls and must be made within the context of the patient's clinical history and other diagnostic tests. A qualified pathologist must perform evaluation of the test.

Summary and Explanation:

The antibody reacts with wild-type and mutant type p53 protein. It is a useful tool to detect p53 overexpression. In many tumor types p53 appears to have prognostic significance.

Wild-type p53 protein is present in normal cells but due to a very short half-life it is below the detection level by immunohistochemistry assay. Somatic mutation of the p53 gene is a frequent event in human neoplasia. The mutant p53 protein is more stable and is accumulated to a high level in the tumors.

Immunogen: Recombinant human wild type p53.

Isotype: IgG2a

Reagent Provided:

Concentrated format: Antibody to p53 is diluted in antibody diluent, with 1% bovine serum albumin (BSA) and 0.05% sodium azide (NaN_3). Recommended dilutions: 1:50 – 1:100.The antibody dilution and protocol may vary depending on the specimen preparation and specific application. Optimal conditions should be determined by individual laboratory.

Pre-diluted format: PathnSitu ready to use antibodies are pre tittered to optimal staining conditions. Further dilution may loose the activity and may yield to sub optimal staining.

Storage Recommendations: Store at 2°-8°C. Do not use after expiration date provided on the vial.

Staining Recommendations:

Antigen Retrieval Solution: Use **EDTA Buffer(PathnSitu Cat # PS008)** as antigen retrieval solution
Heat Retrieval Method: Retrieve sections under steam pressure for 15 min using PathnSitu's MERS (Multi Epitope Retrieval System) then allow solution to cool for 10 minutes then transfer tissue sections/slides to distilled water.

Primary Antibody: Cover the tissue sections with primary antibody and incubate for 30 min at room temperature when used PathnSitu PolyExcel Detection System.

Detection System: Refer to PathnSitu PolyExcel detection system protocol or manufacturer's detection kit staining protocol when used other vendor detection system.

Cellular Localization: Nuclear

Positive Control: ColonadenoCa

Troubleshooting: Follow the antibody specific protocol recommendations according to data sheet provided. If unusual results occur, contact PathnSitu Technical Support at 040-2701 5544 or techsupport@pathnsitu.com

Limitations and Warranty: There are no warranties, expressed or implied, which extend beyond this description. PathnSitu is not liable for property damage, personal injury, or economic loss caused by this product.

Bibliography:

1. Bártek J, et al. J Pathol. 1993 Jan;169(1):27-34.
2. Terada T, et al. Mod Pathol. 1994 Feb;7(2):249-52.
3. Suzuki H, et al. Cancer Lett. 2006 Jun 18;237(2):242-7. Epub 2005 Aug 18.

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