

p53 Mouse Monoclonal Antibody Product Datasheet

Catalog# BX50190

Clone# BPM6168

Predicted Molecular Wt: 58kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P04637

Background:

p53 has been observed to act as both as a tumor-suppressor and transcription factor. By binding to DNA, the normal p53 negatively regulates cell growth and division. In case of DNA damage, p53 arrests the cell cycle until repair has taken place. In case repair is not possible, p53 induces apoptosis. p53 acts a two checkpoints in the cell cycle, between G1 and S, and between G2 and M, respectively.

p53 is expressed in the nuclei of all normal cells, but usually not immunohistochemically detectable due to a very short half-life (10-20 min.). In tumor tissues, p53 is overexpressed in over 50% of human cancers. Positive staining of p53 detected by immunohistochemistry has been observed in colon cancer, breast cancer, lung cancer, prostate cancer and ovarian cancer.

p53 has been used to differentiate uterine serous carcinoma from endometrioid carcinoma, as well as a marker for intratubular germ cell neoplasia.

Subcellular location:

Nucleus

Recommended method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Recombinant human wild type p53 protein was used as an immunogen.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

-25°C to -18°C

Storage instructions:

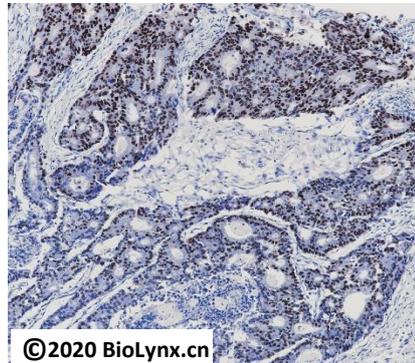
Shipped on blue ice. Upon delivery, aliquot, and store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

IHC-P: 1:100-1:200

Background References:

1. Wang L et al. IUBMB Life 71:45-56.
2. Dang X et al. Chem Biol Interact 300:82-90.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of colon cancer tissue labelling p53 with BMP6142. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.