IHCAb™ P53 (BGT-P53) Mouse mAb

Cat #: B-IMW6800

Size: 100 µL

Storage: Store at -20°C. Avoid repeated freeze / thaw cycles.

Background

tumor protein p53 (TP53) Homo sapiens This gene encodes a tumor suppressor protein containing transcriptional activation, DNA binding, and oligomerization domains. The encoded protein responds to diverse cellular stresses to regulate expression of target genes, thereby inducing cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. Mutations in this gene are associated with a variety of human cancers, including hereditary cancers such as Li-Fraumeni syndrome. Alternative splicing of this gene and the use of alternate promoters result in multiple transcript variants and isoforms. Additional isoforms have also been shown to result from the use of alternate translation initiation codons (PMIDs: 12032546, 20937277).

Product Information

Applications/Dilution: WB 1:500-2000 ,IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200

Isotype/Source: Monoclonal Mouse IgG2a, Kappa

Specificity: The antibody can recognize human wild type and mutant P53 protein. In western blotting of wild type HEK293 cell lysate, the antibody can label a 50 kDa band corresponding to P53, while there is no ban

Subcellular Location: Cytoplasm . Nucleus . Nucleus, PML body . Endoplasmic reticulum . Mitochondrion matrix . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Recruited into PML bodies together with CHEK2 (PubMed:12810724). Translocates to mitochondria upon oxidative stress (PubMed:22726440). Translocates to mitochondria in response to mitomycin C treatment (PubMed:27323408). .; [Isoform 1]: Nucleus . Cytoplasm. Predominantly nuclear but localizes to the cytoplasm when expressed with isoform 4.; [Isoform 2]: Nucleus. Cytoplasm. Localized mainly in the nucleus with minor staining in the cytoplasm.; [Isoform 3]: Nucleus. Cytoplasm. Localized in the

nucleus in most cells but found in the cytoplasm in some cells.; [Isoform 4]: Nucleus. Cytoplasm. Predominantly nuclear but translocates to the cy.

Expression: Ubiquitous. Isoforms are expressed in a wide range of normal tissues but in a tissue-dependent manner. Isoform 2 is expressed in most normal tissues but is not detected in brain, lung, prostate, muscle, fetal brain, spinal cord and fetal liver. Isoform 3 is expressed in most normal tissues but is not detected in lung, spleen, testis, fetal brain, spinal cord and fetal liver. Isoform 7 is expressed in most normal tissues but is not detected in prostate, uterus, skeletal muscle and breast. Isoform 8 is detected only in colon, bone marrow, testis, fetal brain and intestine. Isoform 9 is expressed in most normal tissues but is not detected in brain, heart, lung, fetal liver, salivary gland, breast or intestine

Formulation: PBS, pH7.2, 0.03% Porcolin 300, containing stabilizing protein

Storage: Store at -15°C to -25°C

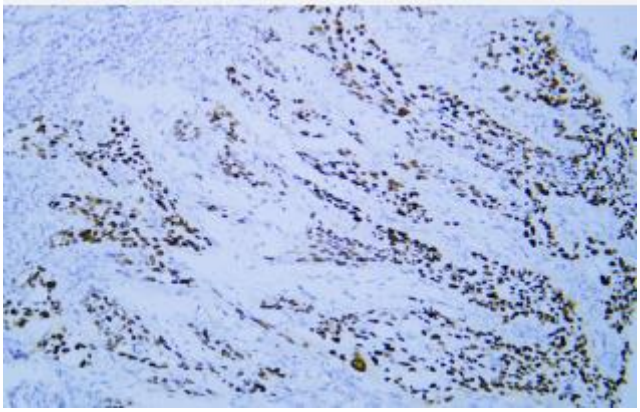

Fig. Human esophageal squamous cell carcinoma tissue was stained with Anti-P53 Antibody.

Note:

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.