

Mouse anti-P53 Monoclonal Antibody

Storage: 2-8°C

Catalog No: M16-008 1ml
M16-008S 0.2ml
M16-008U 6ml

Intended Use and Background:

Mouse anti-P53 antibody is intended for detection of epithelial membrane antigen (P53) of human origin by immunohistochemistry and immunocytochemistry. **p53**, also known as **protein 53** (TP53), is a transcription factor that regulates the cell cycle and hence functions as a tumor suppressor in a variety of tissue types and is involved in regulating cell growth, replication and apoptosis. It binds mdm2, SV40 T antigen and human papilloma virus E6 protein, p53 senses DNA damage and facilitate response. Mutation involving p53 is found in a variety of malignant tumors, including breast, ovarian, bladder, colon, lung and melanoma.

Components:

Mouse anti-P53 antibody is purified from mouse ascite and preserved in PBS buffer containing BSA and 0.1% sodium azide.

Host species: Mouse
Isotype: IgG2a/k
Clone: P53 221
Immunogen: Recombinant human wild type p53 protein
Reacts with: Human, others not tested

Catalog No.	Format	Size
M16-008	Concentrate	1 ml
M16-008S	Concentrate	0.2ml
M16-008U	Ready-to-use	6ml

Positive Control: Human colon Cancer

Pretreatment required: Heat Induced Epitope Retrieval (HIER) in Citrate buffer/pH6.0

Cellular Localization: Nuclear

Application: immunohistochemistry (IHC), immunocytochemistry (ICC).

Recommended Protocol:

For concentrate antibody, the working dilution for formalin-fixed paraffin-embedded human tissue section is from 1:50-100 depending on the detection system used. Prediluted antibody is used directly without dilution. The optimal dilution needs to be determined by the investigator.

Manual staining procedure:

1. Deparaffinize slides.
2. Submerge slides in peroxidase quenching solution for 10 minutes and rinse with PBS 3 times, 2 minutes each.
3. Apply serum blocking solution (optional if use polymer detection system)
4. Apply primary antibody and incubate for 30-60 minutes at room temperature and rinse with PBS 3 times, 2 minutes each.
5. Apply secondary antibody conjugate and incubate according to the data sheet of detection system. Rinse with PBS 3 times, 2 minutes each.
6. Apply enzyme conjugate and incubate according to the data sheet of detection system. Rinse with PBS 3 times, 2 minutes each.
7. Apply chromogen and incubate 5-10 minutes and rinse with PBS.

Precaution:

Wear gloves and take other necessary laboratory safety procedure.

Storage: Store at 2-8°C.

RP53rks: For research use only. Not for diagnostic or therapeutic use.