Human p53 protein
Clone DO-7
Cat. No. MONX10198

Specificity
Human p53 wild type and mutant forms under both denaturing and non-denaturing conditions. DO-7 is recommended for determining the p53 status of a variety of carcinomas, including breast and colorectal carcinomas.

Immunoglobulin type
Mouse IgG2b.

Use
The antibody can be used for immunochemistry on paraffin sections.

Instructions for use

Immunohistochemistry:
Typical working solution: 1:50 – 1:100
60 minutes primary antibody incubation at 25°C.
High temperature antigen retrieval using 0.01M citrate retrieval solution (pH 6.0) is recommended. This is provided as a guide and users should determine their own optimal working dilutions.

Staining pattern:
Normal Tissues: Due to low levels of the p53 protein in normal tissues, staining with clone DO7 is weak in the nuclei of syncytiotrophoblasts in placenta, prostatic epithelium, basal keratinocytes of epidermis and seminiferous tubules of testis.
Tumor Tissues: Clone DO7 stained 151/386 breast cancers, 10/13 colorectal carcinomas, 6/7 basal cell carcinomas and 1/1 squamous cell carcinoma.

Antigen used for immunizations: Recombinant human wild type p53 protein.

Positive control
Recommended positive control tissue is colorectal or breast carcinoma.

Negative Control
Recommended negative control tissue is cerebellum.

Presentation
Lyophilized tissue culture supernatant containing 15mM sodium azide as a preservative. Reconstitute with 1 ml or 0.1 ml of sterile distilled water as indicated on vial label.

Total protein concentration: 1.0 – 8.0 g/l. Refer to vial batch specific total protein concentration.
Antibody concentration: greater than or equal to 31.5 mg/L as determined by ELISA. Refer to vial label for batch specific Ig concentration.

Literature

Storage and Handling
Store unopened antibody at 2-8°C. Under these conditions, there is no significant loss in product performance up to the expiry date indicated on the vial label. Do not use after expiration date indicated on the vial label. The reconstituted antibody is stable for at least two months when stored at 2-8°C. For long term storage, it is recommended that aliquots of the reconstituted antibody are stored frozen at -20°C (frost-free freezers are not recommended). Repeated freezing and thawing must be avoided. Prepare working dilutions on the day of use. Return to 2-8°C immediately after use. Storage conditions other than those specified above must be verified by the user.

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