Anti-Human Muc-1 Glycoprotein
Clone Ma695
Cat. No. MONX10514

Specificity
MONX10514 is recommended for use in the detection of Muc-1 glycoprotein in benign and malignant tumors. Carbohydrate epitope of the human Muc-1 glycoprotein.

Immunogen: Human breast cancer cell line ZR-75-1.

Immunoglobulin type
Mouse IgG1

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

Instructions for use
Immunohistochemistry:
Suggested dilution: 1:100 for 60 minutes 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: Clone Ma695 detected the cytoplasmic and extracellular membrane-associated mammary-type apomucin, Muc-1 glycoprotein, in mucin-secreting epithelial cells of the endometrium, kidney, lung, pancreas and stomach (n=58).

Tumor Tissues: Clone Ma695 stained 23/27 breast carcinomas, 10/11 ovarian tumors, 8/11 gastrointestinal carcinomas, 6/6 lung carcinomas, 3/3 transitional cell carcinomas of the bladder and kidney, 3/3 renal cell carcinomas, 2/2 endometrial tumors, 1/2 prostate carcinomas, 1/1 papillary carcinoma of the thyroid and 1/1 mucinous carcinoma of the liver. No staining was seen in an additional 35 tumors evaluated.

Positive control
Recommended positive control tissue is lung.

Negative Control
Recommended negative control tissue is muscle.

Presentation
MONX10514 is a purified immunoglobulin diluted in phosphate-buffered saline (pH7.6) with 1% bovine serum albumin carrier protein and 15mM sodium azide as a preservative. The user is required to reconstitute the contents of the vial with the correct volume of sterile distilled water as indicated on the vial label.

Total protein concentration: 8.0 – 12.0 g/l. Refer to vial batch specific total protein concentration. Antibody concentration: greater than or equal to 22.5 mg/L as determined by spectrophotometric analysis. 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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