

Moab anti p120 Catenin, 7 ml Ready to use
Clone MRQ-5
Cat. no.: MON-RTU1241

Specificity

p120 Catenin is encoded on chromosome 11q11. Alpha-catenin and Beta-Catenin bind to the intracellular domain of E-Cadherin while p120 Catenin binds E-Cadherin at a juxta-membrane site. The complex stabilizes tight junctions. In the cell, p120 Catenin localized to the E-Cadherin/catenins cell adhesion complex, directly associates with cytoplasmic C-terminus of E-Cadherin via its Arm domain and may similarly interact with other Cadherins. A deficiency of E-Cadherin results in the intracytoplasmic accumulation of p120 Catenin. Lobular carcinoma of the breast shows intracytoplasmic accumulation of p120 Catenin while ductal carcinoma shows reduced membrane p120 Catenin without cytoplasmic accumulation. In gastric and colonic carcinoma, strong cytoplasmic p120 Catenin is associated with dyscohesive infiltrative morphology. The high expression of p120 may indicate poor prognosis in lung adenocarcinoma, bladder cancer, pancreatic cancer.

Immunoglobulin type

Mouse IgG1

Use

Paraffin, Frozen

Preparation and Pretreatment

1. Cut 3-4 μ m section of formalin-fixed paraffin-embedded tissue and place on positively charged slides; dry overnight at 58°C.
2. Deparaffinize, rehydrate, and epitope retrieve; the preferred method is the use of Heat Induced Epitope Retrieval (HIER) technique in conjunction with a pressure cooker. The preferred method allows for simultaneous deparaffinization, rehydration, and epitope retrieval. Upon completion, rinse with 5 changes of distilled or deionized water.
3. If using HRP detection system, place slides in peroxide block for 10 minutes; rinse. If using AP detection system, omit this step.

Positive control

Breast lobular carcinoma, malignant melanoma

Staining pattern

Cytoplasmic, membranous

Presentation

7 ml. prediluted. Ready to use

Anti-p120 Catenin is a purified mouse monoclonal antibody, diluted in phosphate buffered saline, pH 7.4, with protein base, and preserved with sodium azide preservative.

MONOSAN, a brand name of SANBIO B.V.

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Storage & handling

Store antibody at 2-8°C until expiry date. For extended storage, the solution may be frozen in suitable aliquots. Avoid freeze/thaw cycles.

References

1. Reynolds AB, Herbert L, et al. p120, a novel substrate of protein tyrosine kinase receptors and of p60, is related to cadherin-binding factors β -catenin, plakoglobin, and armadillo. *Oncogene* 1992;7: 2439-2445.
2. Thoreson MA, Anastasiadis PZ, et al. Selective uncoupling of p120 from E-cadherin complexes. *Mol Cell Biol.* 1994;14: 8333-8342.
3. Juliet M, Daniel, et al. Monoclonal antibodies to Kaiso: A novel transcription factor and p120ctn-binding protein. *Hybridoma*, 2001 May;20:159-165
4. Julia Mayerle, Helmut Friess, et al. Up-regulation, nuclear import, and tumor growth stimulation of adhesion protein p120ctn in pancreatic cancer. *Gastroenterology* 2003;124:949-960
5. Sarrio D, Perez-Mies B, et al. Cytoplasmic localization of p120ctn and E-cadherin loss characterize lobular breast carcinoma from preinvasive to metastatic lesions. *Oncogene*. 2004 Apr 22;23(19):3272-83.
6. Dabbs DJ, Bhargava R, Chivukula M. The diagnostic utility of p120 catenin. *Am J Surg. Pathol.* 2007 31(3):427-37.

Also available on request:

1 ml, prediluted	Ready to use
0.1 ml, concentrate	1:100 -1:500*
0.5 ml, concentrate	1:100 -1:500*
1 ml, concentrate	1:100 -1:500*

* The dilutions set forth above are estimates; actual results may differ because of variability in methods and protocols. Validation of antibody performance/protocol is the responsibility of the end user.

FOR RESEARCH USE ONLY, NOT FOR DRUG, DIAGNOSTIC OR OTHER USE.

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