Anti-Human P-Cadherin Purified

Catalog Number: 14-9873
RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Human P-Cadherin Purified
Catalog Number: 14-9873
Clone: 12H6
Concentration: 0.5 mg/mL
Host/Isotype: Mouse IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.
Batch Code: Refer to vial
Use By: Refer to vial

Description

The monoclonal antibody 12H6 recognizes human P-cadherin (placental-cadherin), a calcium dependent cell-cell adhesion protein. This 118 kDa transmembrane protein was originally named due to its expression in mouse placental tissue. Unfortunately, it is not expressed in human placental tissue. The function of the molecule will depend on the associations with the specific member of the cytoplasmic catenin family (alpha, beta and gamma). The specific interaction defines the strength and signaling of the cell-cell interaction. Expression is less broad than E-cadherin; P-cadherin is restricted to the basal proliferative cell layer of stratified epithelia. During development expression is found in the proliferating tissues such as hair follicle keratinocytes and the growth regions in ductal mammary tissue. There is evidence that P-cadherin can be secreted from epithelial cells during the late stages of pregnancy. P-cadherin expression is associated with poor prognosis for breast cancer while reduced expression in melanomas and squamous cell carcinomas may also result in poor prognosis.

Applications Reported

This 12H6 antibody has been reported for use in western blotting, immunohistochemical staining of formalin-fixed paraffin embedded tissue sections (IHC-P), and immunocytochemical staining (ICC).

Applications Tested

This 12H6 antibody has been tested immunohistochemistry on formalin-fixed paraffin embedded (FFPE) human skin with low pH antigen retrieval. This antibody can be used at less than or equal to 10 ug/mL. It is recommended that this antibody be carefully titrated for optimal performance in the assay of interest.

References

Jacobs K, Feys L, Vanhoecke B, Van Marck V, Bracke M. P-cadherin expression reduces melanoma growth, invasion, and responsiveness to growth factors in nude mice. Eur J Cancer Prev. 2011 May;20(3):207-16.

Turashvili G, McKinney SE, Goktepe O, Leung SC, Huntsman DG, Gelmon KA, Los G, Rejto PA, Aparicio SA. P-cadherin expression as a prognostic biomarker in a 3992 case tissue microarray series of breast cancer Modern Pathology . 2011 24, 64–81.

Sarrió D, Palacios J, Hergueta-Redondo M, Gómez-López G, Cano A, Moreno-Bueno G. Functional characterization of E- and P-cadherin in invasive breast cancer cells. BMC Cancer. 2009; 9: 74.

Joana Paredes, Ana Luísa Correia, Ana Sofia Ribeiro, André Albergaria, Fernanda Milanezi, Fernando C Schmitt. P-cadherin expression in breast cancer: a review. Breast Cancer Res. 2007; 9(5): 214.

Related Products

00-4953 IHC /ICC Blocking Buffer - Low Protein
00-4954 20X TBS Wash Buffer for IHC/ICC
00-4955 IHC Antigen Retrieval Solution – Low pH (10X)
14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.8.1)

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