



Product Information Sheet

Monoclonal Anti- Catenin γ (Plakoglobin)

Catalogue No. MA1012

Immunogen

Recombinant chicken plakoglobin.

Lot No. 08A12

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Clone: CN-3

Ig type: mouse IgG1

Application

Western blot

Size: 100 μ g/vial

At 2 μ g/ml with the appropriate system to detect catenin γ (plakoglobin) in cells and tissues.

Specificity

Human, rat, chicken.

Immunohistochemistry(F)

No cross reactivity with other proteins.

At 4 μ g/ml to detect catenin γ (plakoglobin) in formalin/acetone fixed tissues.

Immunocytochemistry

Suitable

Other applications have not been tested.

Recommended application

Optimal dilutions should be determined by end user.

Western blot

Immunohistochemistry(F)

Immunocytochemistry

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN₃ as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100 μ g/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

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BACKGROUND

Junction Plakoglobin (JUP), also known as catenin gamma, is a major cytoplasmic protein that occurs in a soluble and a membrane-associated form and is the only known constituent common to the submembranous plaques of both kinds of adhering junctions, the desmosomes and the intermediate junctions. It is a component of the cadherin-catenin complex, which is predominantly localized where

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actin filaments anchor in adherens junctions of epithelial cells. The human plakoglobin gene localizes on chromosome 17q21. Gamma-catenin is regulated by the APC tumor suppressor and its oncogenic activity is distinct from that of beta-catenin.

REFERENCE

1 Aberle, H.; Bierkamp, C.; Torchard, D.; Serova, O.; Wagner, T.; Natt, E.; Wirsching, J.; Heidkamper, C.; Montagna, M.; Lynch, H. T.; Lenoir, G. M.; Scherer, G.; Feunteun, J.; Kemler, R. : The human plakoglobin gene localizes on chromosome 17q21 and is subjected to loss of heterozygosity in breast and ovarian cancers. *Proc. Nat. Acad. Sci.* 92: 6384-6388, 1995.

2 Kolligs, F. T.; Kolligs, B.; Hajra, K. M.; Hu, G.; Tani, M.; Cho, K. R.; Fearon, E. R. : Gamma-catenin is regulated by the APC tumor suppressor and its oncogenic activity is distinct from that of beta-catenin. *Genes Dev.* 14: 1319-1331, 2000.