

## Monoclonal Anti- Catenin $\gamma$ (Plakoglobin)

**Catalogue No.** MA1012

**Immunogen**

Recombinant chicken plakoglobin.

**Lot No.** 08A12

**Purification**

**Clone:** CN-3

Purified by the goat anti-mouse IgG affinity chromatography.

**Ig type:** mouse IgG1

**Application**

*Western blot*

**Size:** 100 $\mu$ g/vial

At 2 $\mu$ g/ml with the appropriate system to detect catenin  $\gamma$  (plakoglobin) in cells and tissues.

**Specificity**

Human, rat, chicken.

*Immunohistochemistry(F)*

No cross reactivity with other proteins.

At 4 $\mu$ g/ml to detect catenin  $\gamma$  (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 NaN<sub>3</sub> as preservative.

**Reconstitution**

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100 $\mu$ 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.

**BOSTER BIOLOGICAL  
TECHNOLOGY Co., LTD.**

[www.immunoleader.com](http://www.immunoleader.com)

Tel: +86-27-678-453-98

Fax: +86-27-678-453-96

Email: [Booster@immunoleader.com](mailto:Booster@immunoleader.com)

**Relative detection systems**

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by SA1021 in IH; supported by chemiluminescence kit EK1001 in WB.

## **BACKGROUND**

Junction Plakoglobin (JUP) ,also knows 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 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.