



## Product Information Sheet

### Monoclonal Anti- Catenin $\gamma$ (Plakoglobin) Magnetic Beads Conjugate

**Catalogue No.** MA1012-M

**Immunogen**

Recombinant chicken plakoglobin.

**Lot No.** 08A12

**Purification**

**Clone:** CN-3

Purified by the goat anti-mouse IgG affinity chromatography.

**Ig type:** mouse IgG1

**Formulation**

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg  $\text{NaN}_3$ .

**Size:** 200 $\mu$ l

**Storage**

**Specificity**

Store at 4°C for frequent use.

Human, rat, chicken.

No cross reactivity with other proteins.

**Description**

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified beads. It is useful for immunoprecipitation.

**Recommended application**

*Immunoprecipitation(IP)*

#### 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.

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