

Code No. 18979

**Anti-Human
Girdin Rabbit IgG Affinity Purify**Volume : 100 µg

Introduction : Girdin was discovered by a study group led by Takahashi as a new protein playing an important role in the infiltration and metastasis of cancer cells. It has been shown that Girdin, phosphorylated by the enzyme Akt/PKB within cancer cells, enhances the infiltration potential of cancer cells. It has, therefore, been suggested that if the activity of girdin is suppressed, it may be possible to develop a drug which can suppress the progression of cancer.

Antigen : Synthetic peptide of a part of Human Girdin

Purification : Purified with protein A

Form : Lyophilized product from 1 % BSA in PBS containing 0.05% NaN₃

How to use : 1.0 mL deionized water will be added to the product (the conc. comes up 100 µg /mL)

Stability : Lyophilized product, 5 years at 2 – 8 °C
: Solution, 2 years at –20 °C

Application : This antibody can be used for immunocytochemistry by several techniques. The optimal concentration is 6 - 12 µg/mL, however, the concentration should be optimized by each laboratory.
: This antibody can be used for western blotting in concentration of 2.5 µg /mL.
: This antibody can be used for immuno-precipitation in concentration of 1 - 10 µg /test.

Reference : 1. Enomoto A, Murakami H, Asai N, Morone N, Watanabe T, Kawai K, Murakumo Y, Usukura J, Kaibuchi K, Takahashi M. Akt/PKB regulates actin organization and cell motility via Girdin/APE. *Dev Cell*. 2005 Sep;9(3):389-402.
2. Enomoto A, Ping J, Takahashi M. Girdin, a novel actin-binding protein, and its family of proteins possess versatile functions in the Akt and Wnt signaling pathways. *Ann N Y Acad Sci*. 2006 Nov;1086:169-84.
3. Kitamura T, Asai N, Enomoto A, Maeda K, Kato T, Ishida M, Jiang P, Watanabe T, Usukura J, Kondo T, Costantini F, Murohara T, Takahashi M. Regulation of VEGF-mediated angiogenesis by the Akt/PKB substrate Girdin. *Nat Cell Biol*. 2008 Mar;10(3):329-37.
4. Jiang P, Enomoto A, Jijiwa M, Kato T, Hasegawa T, Ishida M, Sato T, Asai N, Murakumo Y, Takahashi M. An Actin-Binding Protein Girdin Regulates the Motility of Breast Cancer Cells. *Cancer Res*. 2008 Mar 1;68(5):1310-8.

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