

Code No. 28067

**Anti-Human
Girdin (S1416 Phosphorylated) 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 the phosphorylated part of Human Girdin (DINRERQK(pS)LTLT)

Purification : Purified with antigen peptide

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 stained in formalin fixed paraffin embedded tissues by several Immunohistochemical techniques such as Avidin Biotin Complex (ABC) Method. The optimal dilution is 1 - 2 µg/mL, however, the dilution rate should be optimized by each laboratories.
: This antibody can be used for western blotting in concentration of 2 - 4 µg /mL.

Specificity : Specific for phosphorylated Girdin

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. *Cancer Res*. 2008 Mar 1;68(5):1310-8.
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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