

Code No. 28147

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

Introduction : Classical (β -catenin dependent) and non-classical (β -catenin non-dependent) Wnt signal pathway are signal pathways that regulate forming and maintaining of embryonic growth or cell structures of organs and amplifying of cells. It is also involved in various diseases including cancers. Especially, it has been well known that the non-classical Wnt signal pathway regulates polarity determination of tissues and migration of cells. It has been revealed that scaffold molecule "**Dishevelled (Dvl)**" and low molecular weight **GTPase** "Rho molecular group (**Rac, Rho**)" that activates downstream have essential roles in this pathway.

Daple is a molecule that was identified by A. Kikuchi et al, Osaka University and it shows that it has a homological sequence with Girdin or Gipi. It is suggested that Daple binds to Dvl and controls activation of Rac depended on Wnt5a stimulus via its mutual interaction. It was discovered that Daple is essential for cell migration and restructuring of actin structure and its molecular mechanism has also an important role for healing of wound of skin by Daple knockout mouse analysis (Ref.1).

Antigen : Synthetic peptide of Daple (EPGGDPQTVWYEYG)

Purification : Affinity purified with antigen peptide

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

How to use : Add 1.0 mL deionized water to the product to make the concentration to become 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;
Immunohistochemistry (IHC) in concentration of 5.5 µg/mL
Immunocytochemistry (ICC) in concentration of 11 µg/mL
Western blotting (W.B.) in concentration of 1~5 µg /mL

Specificity : Cross-react with Human Daple

References : 1. Ishida-Takagishi M, Enomoto A, Asai N, Ushida K, Watanabe T, Hashimoto T, Kato T, Weng L, Matsumoto S, Asai M, Murakumo Y, Kaibuchi K, Kikuchi A, Takahashi M. The Dishevelled-associating protein Daple controls the non-canonical Wnt/Rac pathway and cell motility. Nat Commun. 2012 May 29;3:859.

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