

Code No. 28033

**Anti-Human  
PRAS40 (P238) Rabbit IgG Affinity Purify**

Volume : 100 µg

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**Introduction** : PRAS40 (proline-rich Akt substrate of 40 kDa) is a protein with a proline-rich domain and appears at about 40 kDa by SDS-PAGE. Initially it was identified as a substrate of PKB/Akt, it was later shown that it is also phosphorylated by mTORC1 (a complex including scaffold protein which is necessary for mTOR and phosphorylation of substrate by mTOR). PRAS40 binds to raptor through the mediation of TOS-motif in its structure in the same way as p70 S6 kinase and 4E-P1 do as substrates of mTOR, then PRAS40 is phosphorylated by mTORC1 at Ser-183 (human), and the phosphorylated PRAS40 will be dissociated from raptor. Therefore, it is considered that PRAS40 is involved in signal-transducing pathway through the mediation of not only PKB/Akt but also mTOR.

**Antigen** : Synthetic peptide of the C terminal part of Human PRAS40  
(DLPRPRLNTSDFQKLKRY)

**Purification** : Purified with antigen peptide

**Form** : Lyophilized product from 1% BSA in PBS containing 0.05% NaN<sub>3</sub>

**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 western blotting in concentration of 0.5 - 3 µg /mL.  
: This antibody can be used for immuno-precipitation in concentration of 1 - 3 µg /mL.

**Reference** : 1. Oshiro N, Takahashi R, Yoshino K, Tanimura K, Nakashima A, Eguchi S, Miyamoto T, Hara K, Takehana K, Avruch J, Kikkawa U, Yonezawa K. The proline-rich Akt substrate of 40 kDa (PRAS40) is a physiological substrate of mammalian target of rapamycin complex 1. J Biol Chem. 2007 Jul 13;282(28):20329-39.

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*For research use only, not for use in diagnostic procedures.*