

Code No. 28035

**Anti-Human  
PRAS40 (S183 Phosphorylated) Rabbit IgG Affinity Purify**Volume : 100 µg

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**Introduction** : mTOR exists as two types of complexes called mTORC1 and mTORC2. mTORC1 is regulated in activity by amino acid and inhibited specifically by an immunosuppressant "rapamycin". It is considered that PRAS40 is phosphorylated by mTORC1, for phosphorylation of PRAS40 (proline-rich Akt substrate of 40 kDa) which is a novel substrate of mTOR at Ser-183 (human) is induced by amino-acid stimulation and inhibited by rapamycin. It is known that mTORC1 is inhibited by AMP kinase system and then phosphorylation of PRAS40 at Ser-183 is inhibited by 2-Deoxyglucose (2DG) treatment inducing activation of AMP-kinase. It is shown that PRAS40 is dissociated from raptor which is a component of mTORC1 when it is phosphorylated by mTORC1, and it is assumed that phosphorylation of PRAS40 at Ser-183 is involved in controlling mTOR signal-transducing pathway.  
This antibody recognizes the phosphorylation of PRAS40 at Ser-183 (human).

**Antigen** : Synthetic peptide of the phosphorylated part of Human PRAS40 (QYAK(pS)LPVS)

**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 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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