

Code No. 28037

**Anti-Human
Raptor (R1) Rabbit IgG Affinity Purify**

Volume : 100 µg

Introduction : Raptor (regulatory associated protein of mTOR) is an about 150 kDa protein which has HEAT repeats and WD40 repeats, and it is identified as an mTOR binding protein. It is conserved over species and widely expressed in a variety of cells, and is also one of configuration factors of mTORC1/mTOR complex 1, which controls proteosynthesis and/or growth of cells along with mLST8. Raptor binds to p70 S6 kinase or 4E-BP1 (eukaryotic translation initiation factor 4E binding protein 1) which is a substrate of mTOR, through the mediation of TOS (TOR signaling) motif, and it plays an important role as a scaffold protein in phosphorylation of the substrate by mTOR.

Antigen : Synthetic peptide of the N terminal part of Human Raptor (MESEMLQSPLLGLGEEDEA)

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 used for western blotting in concentration of 1 - 3 µg /mL.
: This antibody can be used for immuno-precipitation in concentration of 0.25 - 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.