

Code No. 10343

**Anti-
mTOR (N5D11) Mouse IgG MoAb**

Volume : 100 µg

Lot No. :

Introduction : Rapamycin is a lipophilic macrolide compound and induces a G1 phase growth arrest in *S. cerevisiae* and mammalian cells. The mammalian target of rapamycin (mTOR) has a molecular weight of 290kDa and a Ser/Thr protein kinase activity. mTOR has been shown to be an upstream regulator of translational effectors, such as p70 S6 kinase and eIF4E-binding protein 1, and plays a crucial role in a nutrient-sensitive signalling pathway that regulates cell growth.

Antigen : Recombinant Rat mTOR

Source : Mouse-Mouse hybridoma (supernatant)
(X63-Ag8.653 × BALB/c mouse spleen cells)

Clone : N5D11 **Subclass** : IgG₁

Purification : Affinity purified with anti-mouse IgG

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 about 1 µg /mL.
: This antibody can be used for immuno-precipitation in concentration of 3 - 5 µg /Test.

Specificity : Reacts to rat and human mTOR.
: Both recombinant and native forms can be detected.

Reference : Nishiuma T, Hara K, Tsujishita Y, Kaneko K, Shii K, Yonezawa K Characterization of the phosphoproteins and protein kinase activity in mTOR immunoprecipitates. *Biochem Biophys Res Commun.* 1998 Nov 18;252(2):440-4.