

Code No. 10343

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

Volume : 100 µg

Lot No. :

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**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** : IgG<sub>1</sub>

**Purification** : Affinity purified with anti-mouse IgG

**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 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.

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