

**FNIP2 (D3T8Z) Rabbit mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H Mk	Endogenous	140	Rabbit IgG	#Q9P278	57600

**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation

**Dilution**

1:1000  
1:100

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

FNIP2 (D3T8Z) Rabbit mAb recognizes endogenous levels of total FNIP2 protein. This antibody does not cross-react with FNIP1 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly26 of human FNIP2 protein.

**Background**

FNIP1 and FNIP2 were identified as proteins interacting with tumor suppressor folliculin (FLCN) (1-3). FNIP1 and FNIP2 directly associate with AMPK, which indicates that they play roles in the energy and nutrient sensing pathways (1, 2). Further studies show that the FLCN/FNIP2 complex functions as a GTPase-activating protein for Rag GTPase C and Rag GTPase D (4). FLCN/FNIP2 complex thus promotes the binding of mTORC1 to Rag heterodimers, leading to the mTORC1 activation (4). In addition, along with FLCN, both FNIP1 and FNIP2 contribute to kidney tumor suppression (5).

**Background References**

1. Baba, M. et al. (2006) *Proc Natl Acad Sci U S A* 103, 15552-7.
2. Hasumi, H. et al. (2008) *Gene* 415, 60-7.
3. Takagi, Y. et al. (2008) *Oncogene* 27, 5339-47.
4. Tsun, Z.Y. et al. (2013) *Mol Cell* 52, 495-505.
5. Hasumi, H. et al. (2015) *Proc Natl Acad Sci U S A* 112, E1624-31.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting **IP:** Immunoprecipitation

**Cross-Reactivity Key**

**H:** Human **Mk:** Monkey

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