

Recombinant Mouse Fnip2 Protein, Myc/DDK-tagged

Cat. No. Fnip2-3066M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length folliculin interacting protein 2 (Fnip2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Binding partner of the GTPase-activating protein FLCN: involved in the cellular response to amino acid availability by regulating the mTORC1 signaling cascade controlling the MiT/TFE factors TFEB and TFE3. In low-amino acid conditions, component of the lysosomal folliculin complex (LFC) on the membrane of lysosomes, which inhibits the GTPase-activating activity of FLCN, thereby inactivating mTORC1 and promoting nuclear translocation of TFEB and TFE3. Upon amino acid restimulation, disassembly of the LFC complex liberates the GTPase-activating activity of FLCN, leading to activation of mTORC1 and subsequent cytoplasmic retention of TFEB and TFE3. Together with FLCN, regulates autophagy: following phosphorylation by ULK1, interacts with GABARAP and promotes autophagy. In addition to its role in mTORC1 signaling, also acts as a co-chaperone of HSP90AA1/Hsp90: inhibits the ATPase activity of HSP90AA1/Hsp90, leading to activate both kinase and non-kinase client proteins of HSP90AA1/Hsp90. Acts as a scaffold to load client protein FLCN onto HSP90AA1/Hsp90. Competes with the activating co-chaperone AHSA1 for binding to HSP90AA1, thereby providing a reciprocal regulatory mechanism for chaperoning of client proteins. May play a role in the signal transduction pathway of apoptosis induced by O6-methylguanine-mispaired

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Molecular Mass	122.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Fnip2 folliculin interacting protein 2 [Mus musculus (house mouse)]
Official Symbol	Fnip2
Synonyms	FNIP2; folliculin interacting protein 2; folliculin-interacting protein 2; FNIP1-like protein; O6-methylguanine-induced apoptosis 1 protein; mKIAA1450; D630023B12Rik
Gene ID	329679
mRNA Refseq	NM_001162999
Protein Refseq	NP_001156471

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UniProt ID

Q80TD3

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