Recombinant Mouse Itfg2 Protein, MYC/DDK-tagged

Cat. No. Itfg2-172M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse integrin alpha FG-GAP repeat containing 2 (Itfg2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	As part of the KICSTOR complex functions in the amino acid-sensing branch of the TORC1 signaling pathway. Recruits, in an amino acid-independent manner, the GATOR1 complex to the lysosomal membranes and allows its interaction with GATOR2 and the RAG GTPases. Functions upstream of the RAG GTPases and is required to negatively regulate mTORC1 signaling in absence of amino acids. In absence of the KICSTOR complex mTORC1 is constitutively localized to the lysosome and activated. The KICSTOR complex is also probably involved in the regulation of mTORC1 by glucose.
Molecular Mass	49 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.

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Concentration	>50 ug/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	Itfg2 integrin alpha FG-GAP repeat containing 2 [Mus musculus (house mouse)]
Official Symbol	Itfg2
Synonyms	Itfg2; integrin alpha FG-GAP repeat containing 2; AI646725; 2700050P07Rik; KICSTOR complex protein ITFG2; integrin-alpha FG-GAP repeat-containing protein 2
Gene ID	101142
mRNA Refseq	NM_133927
Protein Refseq	NP_598688
UniProt ID	Q91WI7

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