

Recombinant Mouse Zfyve27 Protein, Myc/DDK-tagged

Cat. No. Zfyve27-7104M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse zinc finger, FYVE domain containing 27 (Zfyve27), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Key regulator of RAB11-dependent vesicular trafficking during neurite extension through polarized membrane transport. Promotes axonal elongation and contributes to the establishment of neuronal cell polarity. Involved in nerve growth factor-induced neurite formation in VAPA-dependent manner. Contributes to both the formation and stabilization of the tubular ER network. Involved in ER morphogenesis by regulating the sheet-to-tubule balance and possibly the density of tubule interconnections. Acts as an adapter protein that facilitates the interaction of KIF5A with VAPA, VAPB, SURF4, RAB11A, RAB11B and RTN3 and the ZFYVE27-KIF5A complex contributes to the transport of these proteins in neurons. Can induce formation of neurite-like membrane protrusions in non-neuronal cells in a KIF5A/B-dependent manner.
Molecular Mass	46.7 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.

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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	Zfyve27 zinc finger, FYVE domain containing 27 [Mus musculus (house mouse)]
Official Symbol	Zfyve27
Synonyms	Zfyve27; zinc finger, FYVE domain containing 27; pro; AI426636; AI593546; AI835681; 2210011N02Rik; 9530077C24Rik; protrudin; zinc finger FYVE domain-containing protein 27
Gene ID	319740
mRNA Refseq	NM_177319
Protein Refseq	NP_796293
UniProt ID	Q3TXX3