

**ZFYVE27 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17130A****Specification**

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**ZFYVE27 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q5T4F4</a>
Other Accession	<a href="#">Q6P7B7</a> , <a href="#">Q3TXX3</a> , <a href="#">NP_001002261.1</a> , <a href="#">NP_001002262.1</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	45843
Antigen Region	28-56

**ZFYVE27 Antibody (N-term) - Additional Information****Gene ID** 118813**Other Names**

Protrudin, Zinc finger FYVE domain-containing protein 27, ZFYVE27

**Target/Specificity**

This ZFYVE27 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 28-56 amino acids from the N-terminal region of human ZFYVE27.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ZFYVE27 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ZFYVE27 Antibody (N-term) - Protein Information****Name** ZFYVE27

**Synonyms** SPG33 {ECO:0000303|PubMed:24668814}

**Function** Key regulator of RAB11-dependent vesicular trafficking during neurite extension through polarized membrane transport (PubMed:[17082457](#)). Promotes axonal elongation and contributes to the establishment of neuronal cell polarity (By similarity). Involved in nerve growth factor-induced neurite formation in VAPA-dependent manner (PubMed:[19289470](#)). Contributes to both the formation and stabilization of the tubular ER network (PubMed:[24668814](#)). Involved in ER morphogenesis by regulating the sheet-to-tubule balance and possibly the density of tubule interconnections (PubMed:[23969831](#)). Acts as an adapter protein and 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 (PubMed:[21976701](#)).

#### Cellular Location

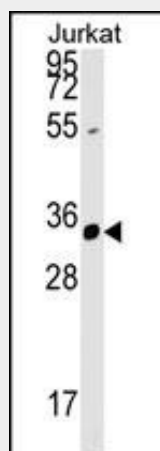
Recycling endosome membrane {ECO:0000250|UniProtKB:Q6P7B7}; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein. Cell projection, growth cone membrane {ECO:0000250|UniProtKB:Q3TXX3}; Multi-pass membrane protein. Note=Localizes at both dendrites and axons (By similarity). Localizes to endoplasmic reticulum tubular network {ECO:0000250|UniProtKB:Q3TXX3, ECO:0000269|PubMed:23969831, ECO:0000269|PubMed:24668814}

#### ZFYVE27 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### ZFYVE27 Antibody (N-term) - Images



ZFYVE27 Antibody (N-term) (Cat. #AP17130a) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the ZFYVE27 antibody detected the ZFYVE27 protein (arrow).

#### ZFYVE27 Antibody (N-term) - Background

This gene encodes a protein with several transmembrane domains, a Rab11-binding domain and a lipid-binding FYVE finger domain. The encoded protein appears to promote neurite formation. A mutation in this gene has been reported to be associated with hereditary spastic paraplegia, however the pathogenicity of the mutation, which may simply represent a polymorphism, is unclear.

#### **ZFYVE27 Antibody (N-term) - References**

Saita, S., et al. J. Biol. Chem. 284(20):13766-13777(2009)  
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Shirane, M., et al. Science 314(5800):818-821(2006)  
Mannan, A.U., et al. Am. J. Hum. Genet. 79(2):351-357(2006)  
Wang, A.G., et al. Biochem. Biophys. Res. Commun. 345(3):1022-1032(2006)