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ZFYVE27 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17130A

Specification

ZFYVE27 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q5T4F4
Other Accession	Q6P7B7, Q3TXX3, NP_001002261.1, NP_001002262.1
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
E~~Use at an assay dependent concentration.

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).

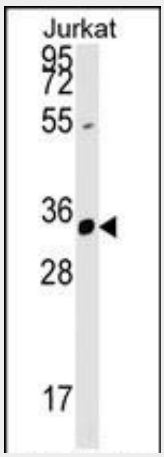
Cellular Location
Recycling endosome membrane {ECO:0000250|UniProtKB:Q6P7B7}; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein. Cell projection, growth cone membrane {ECO:0000250|UniProtKB:Q3TXX3}; Multi-pass membrane protein. Note=Localizes at both dendrites and 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 Cytomety
- 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)
Martignoni, M., et al. Am. J. Hum. Genet. 83(1):127-128(2008)
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)