

Rabbit ZFYVE27 Polyclonal Antibody | anti-ZFYVE27 antibody

ZFYVE27 Antibody

CATALOG # AAA323331	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

ZFYVE27; Polyclonal Antibody; ZFYVE27 Antibody; Protrudin; RP11 459F3.2; SPG33; ZFY27_HUMAN; zinc finger FYVE domain containing 27; Zinc finger FYVE domain containing protein 27; Zinc finger FYVE domain-containing protein 27; anti-ZFYVE27 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ZFYVE27 antibody detects endogenous levels of ZFYVE27.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	416
Applicable Applications for anti-ZFYVE27 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ZFYVE27.
Subcellular Location	Recycling Endosome Membrane. Endoplasmic Reticulum Membrane. Cell Projection > Growth Cone Membrane. Cell Membrane. Localizes at both dendrites and axons.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Bovine (91%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts of Jurkat cells, using ZFYVE27 antibody.



IHC (Immunohistochemistry)

AAA323331 at 1/100 staining Human thyroid cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-ZFYVE27 antibody	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). Subunit Structure: Can form homooligomers (monomers, dimers and tetramers) (PubMed:23969831). Interacts with RAB11A (GDP-bound form); regulates RAB11A (PubMed:17082457). Interacts with FKBP8; may negatively regulate ZFYVE27 phosphorylation (PubMed:17082457, PubMed:18459960). Interacts with VAPA (via MSP domain); may regulate ZFYVE27 retention in the endoplasmic reticulum and its function in cell projections formation (PubMed:19289470, PubMed:21976701). Interacts with VAPB (via MSP domain) (PubMed:19289470, PubMed:21976701). Interacts with REEP1, REEP5 and ATL1 (PubMed:24668814, PubMed:23969831). Interacts with ATL2, ATL3 and SPAST (PubMed:23969831). Interacts with KIF5A and RTN3 (PubMed:21976701). Interacts with RAB11B (GDP-bound form), SURF4, KIF5B and KIF5C (By similarity). Post-translational Modifications: Phosphorylated. Phosphorylation is induced by NGF through the MAPK/ERK pathway and modulates interaction with RAB11A.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	50557646
NCBI GeneID	118813
NCBI Accession #	NP_001002261.1
NCBI GenBank Nucleotide #	NM_001002261.3
UniProt Accession #	Q5T4F4; Q5T4F1; Q5T4F2; Q5T4F3; Q8N1K0; Q8N6D6; B7Z3S0; B7Z404; B7Z626; G8JLC3; G8JLF0; J3KP98
Molecular Weight	Observed: 46-50 kDa Predicted: 46 kDa
NCBI Official Full Name	protrudin isoform a
NCBI Official Synonym Full Names	zinc finger FYVE-type containing 27
NCBI Official Symbol	ZFYVE27
NCBI Official Synonym Symbols	SPG33; PROTRUDIN
NCBI Protein Information	protrudin
UniProt Protein Name	Protrudin
UniProt Gene Name	ZFYVE27
UniProt Synonym Gene Names	SPG331 PublicationManual assertion based on opinion iniRef.13

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.