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ZFYVE1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12459a

Specification

ZFYVE1 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q9HBF4
Other Accession	Q810J8, NP_848535.1, NP_067083.1
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**87176**
Antigen Region	**145-173**

ZFYVE1 Antibody (N-term) - Additional Information

Gene ID 53349

Other Names
Zinc finger FYVE domain-containing protein 1, Double FYVE-containing protein 1, SR3, Tandem FYVE fingers-1, ZFYVE1, DFCP1, KIAA1589, TAFF1, ZNFN2A1

Target/Specificity
This ZFYVE1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 145-173 amino acids from the N-terminal region of human ZFYVE1.

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
ZFYVE1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ZFYVE1 Antibody (N-term) - Protein Information

Name ZFYVE1

Synonyms DFCP1, KIAA1589, TAFF1, ZNFN2A1

Function Plays a role in the formation of lipid droplets (LDs) which are storage organelles at the center of lipid and energy homeostasis (PubMed:30970241). Regulates the morphology, size and distribution of LDs (PubMed:30970241, PubMed:31293035). Mediates the formation of endoplasmic reticulum-lipid droplets (ER-LD) contacts by forming a complex with RAB18 and ZW10 (PubMed:30970241). Binds to phosphatidylinositol 3-phosphate (PtdIns3P) through FYVE-type zinc finger (PubMed:11256955, PubMed:11739631).

Cellular Location
Golgi apparatus, Golgi stack. Golgi apparatus. Endoplasmic reticulum. Lipid droplet Preautophagosomal structure Mitochondrion. Note=Resides predominantly in the cisternal stacks of the Golgi (PubMed:11256955). Colocalizes with TRIM13 on the perinuclear endoplasmic reticulum (PubMed:22178386) During starvation conditions, localizes to omegasomes which are endoplasmic reticulum connected strutures at the origin of preautophagosomal structures (PubMed:25876663, PubMed:31293035) Localizes to lipid droplets in the presence of oleic acid (PubMed:30970241, PubMed:31293035).

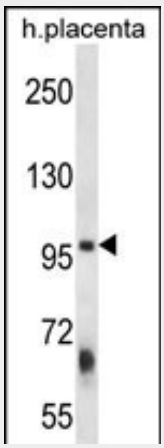
Tissue Location
[Isoform 2]: Highly expressed in heart. Also detected in the testis.

ZFYVE1 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

ZFYVE1 Antibody (N-term) - Images



ZFYVE1 Antibody (N-term) (Cat. #AP12459a) western blot analysis in human placenta tissue lysates (35ug/lane).This demonstrates the ZFYVE1 antibody detected the ZFYVE1 protein (arrow).

ZFYVE1 Antibody (N-term) - Background

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The FYVE domain mediates the recruitment of proteins involved in membrane trafficking and cell signaling to phosphatidylinositol 3-phosphate (PtdIns(3)P)-containing membranes. This gene encodes a protein which contains two zinc-binding FYVE domains in tandem. This protein displays a predominantly Golgi, endoplasmic reticulum and vesicular distribution. Alternatively spliced transcript variants have been found for this gene, and they encode two isoforms with different sizes.

ZFYVE1 Antibody (N-term) - References

Wan, D., et al. Proc. Natl. Acad. Sci. U.S.A. 101(44):15724-15729(2004)
Heilig, R., et al. Nature 421(6923):601-607(2003)
Krugmann, S., et al. Mol. Cell 9(1):95-108(2002)
Ridley, S.H., et al. J. Cell. Sci. 114 (PT 22), 3991-4000 (2001) :
Cheung, P.C., et al. Biochem. J. 355 (PT 1), 113-121 (2001) :