

ZFYVE1 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12459a**Specification**

ZFYVE1 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O9HBF4
Other Accession	O810J8 , 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:[31293035](#), PubMed:[30970241](#)). 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:[11739631](#), PubMed:[11256955](#)).

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 structures at the origin of preautophagosomal structures (PubMed:31293035, PubMed:25876663) Localizes to lipid droplets in the presence of oleic acid (PubMed:31293035, PubMed:30970241).

Tissue Location

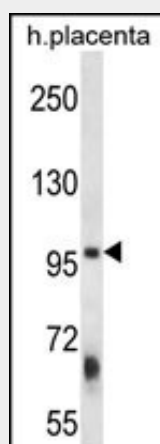
[Isoform 2]: Highly expressed in heart. Also detected in the testis.

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 Cytometry](#)
- [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

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) :