

ZFYVE1 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP12459a**Specification**

ZFYVE1 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q9HBF4](#)**ZFYVE1 Antibody (N-term) Blocking peptide - 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, DFCEP1, KIAA1589, TAFF1, ZNFN2A1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ZFYVE1 Antibody (N-term) Blocking peptide - Protein Information**Name** ZFYVE1**Synonyms** DFCEP1, 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](http://www.uniprot.org/citations/30970241)). Regulates the morphology, size and distribution of LDs (PubMed: [31293035](http://www.uniprot.org/citations/31293035), PubMed: [30970241](http://www.uniprot.org/citations/30970241)). Mediates the formation of endoplasmic reticulum-lipid droplets (ER-LD) contacts by forming a complex with RAB18 and ZW10 (PubMed: [30970241](http://www.uniprot.org/citations/30970241)). Binds to phosphatidylinositol 3-phosphate (PtdIns3P) through FYVE-type zinc finger (PubMed: [11739631](http://www.uniprot.org/citations/11739631), PubMed: [11256955](http://www.uniprot.org/citations/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) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

ZFYVE1 Antibody (N-term) Blocking peptide - Images**ZFYVE1 Antibody (N-term) Blocking peptide - 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) Blocking peptide - 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) :