

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

Synthetic peptide

Catalog # BP12459a

**Specification****ZFYVE1 Antibody (N-term) Blocking peptide - Product Information**Primary 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, DFCP1, 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** 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:&lt;a href="http://www.uniprot.org/citations/30970241"&gt;http://www.uniprot.org/citations/30970241"

**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) :

target="\_blank">30970241</a>).  
Regulates the morphology, size and  
distribution of LDs (PubMed:<a href="http://  
www.uniprot.org/citations/31293035"  
target="\_blank">31293035</a>,  
PubMed:<a href="http://www.uniprot.org/ci  
tations/30970241"  
target="\_blank">30970241</a>). Mediates  
the formation of endoplasmic  
reticulum-lipid droplets (ER-LD) contacts by  
forming a complex with RAB18 and ZW10  
(PubMed:<a href="http://www.uniprot.org/c  
itations/30970241"  
target="\_blank">30970241</a>). Binds to  
phosphatidylinositol 3-phosphate (PtdIns3P)  
through FYVE-type zinc finger (PubMed:<a  
href="http://www.uniprot.org/citations/1173  
9631" target="\_blank">11739631</a>,  
PubMed:<a href="http://www.uniprot.org/ci  
tations/11256955"  
target="\_blank">11256955</a>).

#### 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](#)