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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: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) 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 proteinsinvolved in membrane trafficking and cell signaling tophosphatidylinositol 3-phosphate (PtdIns(3)P)-containing membranes.This gene encodes a protein which contains two zinc-binding FYVEdomains in tandem. This protein displays a predominantly Golgi,endoplasmic reticulum and vesicular distribution. Alternativelyspliced transcript variants have been found for this gene, and theyencode 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) :