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ZFYVE1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57415

Specification

ZFYVE1 Polyclonal Antibody - Product Information

Application	**IHC-P, IHC-F, IF, ICC, E**
Primary Accession	Q9HBF4
Reactivity	**Rat, Dog, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**87 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human ZFYVE1**
Epitope Specificity	**51-150/777**
Isotype	**IgG**

Purity
affinity purified by Protein A

Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SUBCELLULAR LOCATION	**Golgi apparatus, Golgi stack. Note: Resides predominantly in the cisternal stacks of the Golgi.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
The FYVE domain mediates the recruitment of proteins involved in membrane trafficking and cell signaling to phosphatidylinositol 3-phosphate-containing membranes. This protein contains two zinc-binding FYVE domains in tandem and is reported to localize to the Golgi apparatus. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

ZFYVE1 Polyclonal Antibody - 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

Dilution
IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

ZFYVE1 Polyclonal Antibody - 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 Polyclonal Antibody - 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 Polyclonal Antibody - Images