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ZFYVE1 Rabbit pAb

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Catalog # AP57415

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9HBF4
Predicted	Rat, Dog, Human, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	87176
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]

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=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C 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 °C.

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.

Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.