

## ZFYV1 rabbit pAb

|                              |   |
|------------------------------|---|
| <b>Catalog No :</b>          | YT7131  |
| <b>Reactivity :</b>          | Human;Mouse   |
| <b>Applications :</b>        | WB  |
| <b>Target :</b>              | ZFYV1   |
| <b>Fields :</b>              | >>Autophagy - animal;>>Pathways of neurodegeneration - multiple diseases  |
| <b>Gene Name :</b>           | ZFYVE1 DFCP1 KIAA1589 TAFF1 ZNFN2A1 PP10436   |
| <b>Protein Name :</b>        | ZFYV1   |
| <b>Human Gene Id :</b>       | 53349   |
| <b>Human Swiss Prot No :</b> | Q9HBF4  |
| <b>Mouse Gene Id :</b>       | 217695  |
| <b>Mouse Swiss Prot No :</b> | Q810J8  |
| <b>Immunogen :</b>           | Synthesized peptide derived from human ZFYV1 AA range: 318-368  |
| <b>Specificity :</b>         | This antibody detects endogenous levels of ZFYV1 at Human/Mouse   |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG  |
| <b>Dilution :</b>            | WB 1[?]500-2000   |
| <b>Purification :</b>        | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| <b>Concentration :</b>       | 1 mg/ml   |

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Molecularweight :** 85kD

**Background :** 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],

**Function :** sequence caution:Translated as Trp.,similarity:Contains 2 FYVE-type zinc fingers.,subcellular location:Resides predominantly in the cisternal stacks of the Golgi.,subunit:Binds to phosphatidylinositol-3-phosphate (PtdIns3P) through its FYVE-type zinc finger.,tissue specificity:Isoform 1 was expressed in all tissues examined, including, brain, placenta, lung, liver, skeletal muscle, pancreas and kidney. Both isoforms, 1 and 2 showed a high expression in heart. Isoform 2 is also detected in the testis.,

**Subcellular Location :** Golgi apparatus, Golgi stack . Golgi apparatus . Endoplasmic reticulum . Lipid droplet . Preautophagosomal structure . Mitochondrion . 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:31293035, PubMed:25876663). Localizes to lipid droplets in the presence of oleic acid (PubMed:31293035, PubMed:30970241). .

**Expression :** [Isoform 2]: Highly expressed in heart. Also detected in the testis. ; [Isoform 1]: Expressed in all tissues examined, including, brain, placenta, lung, liver, skeletal muscle, pancreas and kidney. Highly expressed in heart.

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