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FYCO1 Rabbit pAb

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Catalog # AP55102

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9BQS8
Reactivity	Mouse
Predicted	Rat, Pig, Dog, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	166983
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FYCO1
Epitope Specificity	1051-1150/1478
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	Cytoplasmic vesicle, autophagosome. Endosome. Lysosome. Note=Localizes to the external but not to the internal membrane of autophagosomes, and upon autophagosome/late endosome/lysosome fusion, it stays on the external surface of autolysosomes.
DISEASE	Defects in FYCO1 are the cause of cataract congenital autosomal recessive type 2 (CATC2) [MIM:610019]. An opacification of the crystalline lens of the eye becoming evident at birth or in infancy. It frequently results in visual impairment or blindness. Opacities vary in morphology, are often confined to a portion of the lens, and may be static or progressive. In general, the more posteriorly located and dense an opacity, the greater the impact on visual function. Note=Pathogenic mutations in FYCO1 can affect intracellular transport of autophagocytic vesicles from the perinuclear area to the periphery, leading to an accumulation of large numbers of vesicles and hence loss of lens transparency (PubMed:21636066).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	FYCO1 is a 1,478 amino acid protein that contains one RUN domain, one GOLD domain and one FYVE-type zinc finger. Expressed in heart and skeletal muscle, FYCO1 exists as multiple alternatively spliced isoforms and may play a role in transcriptional regulation events. In response to DNA damage, FYCO1 is subject to phosphorylation, probably by ATM or ATR. The gene encoding FYCO1 maps to human chromosome 3, which houses over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. Marfan Syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth Disease are a few of the numerous genetic diseases associated with chromosome 3.

Additional Information

Gene ID	79443
Other Names	FYVE and coiled-coil domain-containing protein 1, Zinc finger FYVE domain-containing protein 7, FYCO1, ZFYVE7
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	FYCO1
Synonyms	ZFYVE7
Function	May mediate microtubule plus end-directed vesicle transport.
Cellular Location	Cytoplasmic vesicle, autophagosome. Endosome. Lysosome. Note=Localizes to the external but not to the internal membrane of autophagosomes, and upon autophagosome/late endosome/lysosome fusion, it stays on the external surface of autolysosomes
Tissue Location	Expressed in heart and skeletal muscle.

Background

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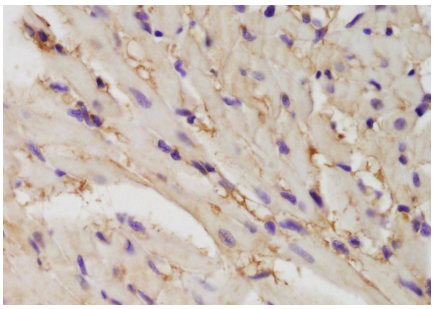
Images



Tissue/cell: mouse heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-FYCO1 Polyclonal Antibody, Unconjugated(AP55102) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining