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FBX40 Rabbit pAb

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Catalog # AP56091

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9UH90
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	79782
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FBX40
Epitope Specificity	351-450/709
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	Cytoplasm.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Members of the F-box protein family, such as FBXO40, are characterized by an approximately 40-amino acid F-box motif. SCF complexes, formed by SKP1 (MIM 601434), cullin (see CUL1; MIM 603134), and F-box proteins, act as protein-ubiquitin ligases. F-box proteins interact with SKP1 through the F box, and they interact with ubiquitination targets through other protein interaction domains (Jin et al., 2004 [PubMed 15520277]).[supplied by OMIM, Mar 2008]

Additional Information

Gene ID	51725
Other Names	F-box only protein 40, Muscle disease-related protein, FBXO40, FBX40, KIAA1195
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

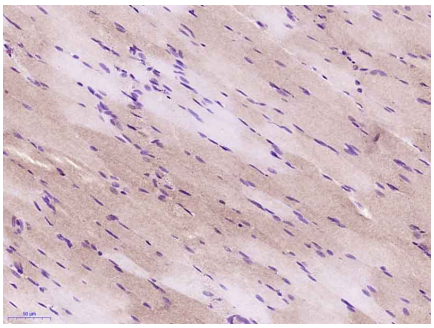
Name	FBXO40

Synonyms	FBX40, KIAA1195
Function	Substrate-recognition component of the SCF (SKP1-CUL1-F-box protein)-type E3 ubiquitin ligase complex. Acts as a muscle-specific negative regulator of IGF1 signaling. Mechanistically, promotes polyubiquitination of IRS1 following its IGF1R-induced tyrosine phosphorylation, leading to IRS1 proteasomal degradation and attenuation of the IRS1/PI3K/AKT pathway in differentiated skeletal muscle. Also mediates IRS1 degradation downstream of STAT3 activation in the context of inflammatory insulin resistance.
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:P62932}.
Tissue Location	Expressed only in heart and skeletal muscle.

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Rat skeletal muscle); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FBX40) Polyclonal Antibody, Unconjugated (AP56091) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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