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XIRP1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13612b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q702N8
Other Accession	NP_919269.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33080
Calculated MW	198561
Antigen Region	1338-1367

Additional Information

Gene ID	165904
Other Names	Xin actin-binding repeat-containing protein 1, Cardiomyopathy-associated protein 1, XIRP1, CMYA1, XIN
Target/Specificity	This XIRP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1338-1367 amino acids from the C-terminal region of human XIRP1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	XIRP1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	XIRP1 (HGNC:14301)
Function	Protects actin filaments from depolymerization (PubMed: 15454575). Required for correct cardiac intercalated disk ultrastructure via maintenance of cell-cell adhesion stability, and as a result maintains cardiac organ

	morphology, conductance and heart beat rhythm (By similarity). Required for development of normal skeletal muscle morphology and muscle fiber type composition (By similarity). Plays a role in regulating muscle satellite cell activation and survival, as a result promotes muscle fiber recovery from injury and fatigue (By similarity).
Cellular Location	Cell junction, adherens junction. Cell junction, desmosome {ECO:0000250|UniProtKB:Q5PZ43}. Note=Colocalizes with actin stress fibers.
Tissue Location	Expressed in skeletal muscle at areas of Z-disk disruption in a longitudinal pattern spanning one or more sarcomeres (at protein level). [Isoform B]: Expressed in the heart (at protein level).

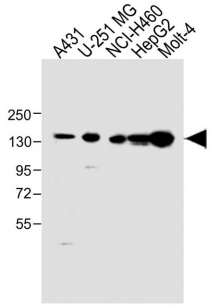
Background

XIRP1 protects actin filaments from depolymerization.

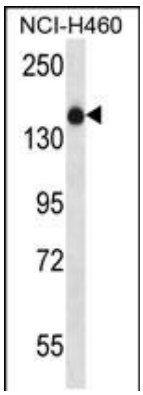
References

Claeys, K.G., et al. Acta Neuropathol. 117(3):293-307(2009)
van der Ven, P.F., et al. Exp. Cell Res. 312(11):2154-2167(2006)
Pacholsky, D., et al. J. Cell. Sci. 117 (PT 22), 5257-5268 (2004) :
Sinn, H.W., et al. Dev. Dyn. 225(1):1-13(2002)
Wang, D.Z., et al. Development 126(6):1281-1294(1999)

Images

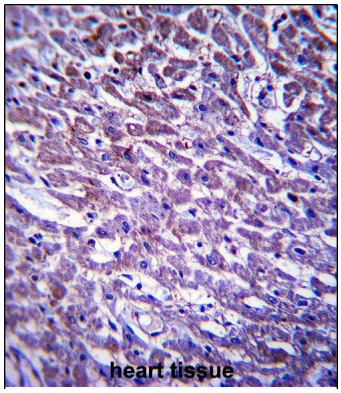


All lanes : Anti-XIRP1 Antibody (C-term) at 1:500 dilution Lane 1: A431 whole cell lysate Lane 2: U-251 MG whole cell lysate Lane 3: NCI-H460 whole cell lysate Lane 4: HepG2 whole cell lysate Lane 5: Molt-4 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 150 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



XIRP1 Antibody (C-term) (Cat. #AP13612b) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the XIRP1 antibody detected the XIRP1 protein (arrow).

XIRP1 Antibody (C-term) (Cat. #AP13612b)immunohistochemistry analysis in formalin fixed and paraffin embedded human heart tissue followed by peroxidase conjugation of the secondary



antibody and DAB staining.This data demonstrates the use of XIRP1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.