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LMCD1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21108a

Product Information

Application	WB, E
Primary Accession	Q9NZU5
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB40473
Calculated MW	40833

Additional Information

Gene ID	29995
Other Names	LIM and cysteine-rich domains protein 1, Dyxin, LMCD1
Target/Specificity	This LMCD1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 316-350 amino acids from the C-terminal region of human LMCD1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. 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	LMCD1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LMCD1
Function	Transcriptional cofactor that restricts GATA6 function by inhibiting DNA-binding, resulting in repression of GATA6 transcriptional activation of downstream target genes. Represses GATA6- mediated trans activation of lung- and cardiac tissue-specific promoters. Inhibits DNA-binding by GATA4 and GATA1 to the cTNC promoter (By similarity). Plays a critical role in the

	development of cardiac hypertrophy via activation of calcineurin/nuclear factor of activated T-cells signaling pathway.
Cellular Location	Cytoplasm. Nucleus. Note=May shuttle between the cytoplasm and the nucleus.
Tissue Location	Expressed in the heart (at protein level). Expressed in many tissues with highest abundance in skeletal muscle

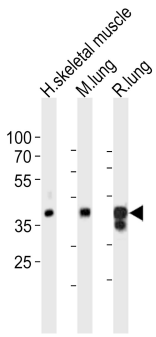
Background

Transcriptional cofactor that restricts GATA6 function by inhibiting DNA-binding, resulting in repression of GATA6 transcriptional activation of downstream target genes. Represses GATA6-mediated trans activation of lung- and cardiac tissue- specific promoters. Inhibits DNA-binding by GATA4 and GATA1 to the cTNC promoter (By similarity). Plays a critical role in the development of cardiac hypertrophy via activation of calcineurin/nuclear factor of activated T-cells signaling pathway.

References

Bespalova I.N.,et al.Genomics 63:69-74(2000).
Holt H.H.,et al.Submitted (DEC-1999) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Rath N.,et al.Mol. Cell. Biol. 25:8864-8873(2005).
Bian Z.Y.,et al.Hypertension 55:257-263(2010).

Images



Western blot analysis of lysates from human skeletal muscle, mouse lung, rat lung tissue lysate (from left to right), using LMCD1 Antibody (C-term)(Cat. #AP21108a). AP21108a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

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