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LMCD1 Rabbit pAb

Catalog # AP99760

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9NZU5
Other Accession	Q9NZU5
Predicted	Pig, Human, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40833
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LMCD1
Epitope Specificity	51-160/365
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 2 LIM zinc-binding domains. Contains 1 PET domain.
SUBUNIT	Interacts with GATA1 and GATA4 (By similarity). Interacts with beta-dystroglycan. Interacts with GATA6.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	29995
Other Names	LMCD1_HUMAN; LMCD1; Dyxin; LIM and cysteine rich domains 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	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

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