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LRRC16A Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18234B

Specification

LRRC16A Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q5VZK9
Other Accession	NP_060110.4
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**151557**
Antigen Region	**1152-1178**

LRRC16A Antibody (C-term) - Additional Information

Gene ID 55604

Other Names
Leucine-rich repeat-containing protein 16A, CARMIL homolog, LRRC16A, CARMIL, CARMIL1a, LRRC16

Target/Specificity
This LRRC16A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1152-1178 amino acids from the C-terminal region of human LRRC16A.

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
LRRC16A Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

LRRC16A Antibody (C-term) - Protein Information

Name CARMIL1 {ECO:0000303|PubMed:16054028, ECO:0000312|HGNC:HGNC:21581}

Function Cell membrane-cytoskeleton-associated protein that plays a role in the regulation of actin polymerization at the barbed end of actin filaments. Prevents F-actin heterodimeric capping protein (CP) activity at the leading edges of migrating cells, and hence generates uncapped barbed ends and enhances actin polymerization, however, seems unable to nucleate filaments (PubMed:16054028). Plays a role in lamellipodial protrusion formations and cell migration (PubMed:19846667).

Cellular Location
Cytoplasm. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q6EDY6}. Cell membrane. Cell projection, lamellipodium. Note=Found on macropinosomes (PubMed:19846667). Colocalized with heterodimeric capping protein (CP) and F-actin in lamellipodia but not with F-actin in stress fibers (PubMed:19846667).

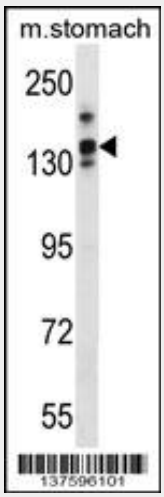
Tissue Location
Expressed in lung, placenta, small intestine, liver, thymus, colon, skeletal muscle, heart and brain. Higher expression in kidney.

LRRC16A Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LRRC16A Antibody (C-term) - Images



LRRC16A Antibody (C-term) (Cat. #AP18234b) western blot analysis in mouse stomach tissue lysates (35ug/lane).This demonstrates the LRRC16A antibody detected the LRRC16A protein (arrow).

LRRC16A Antibody (C-term) - Background

LRRC16A binds CAPZA2 with high affinity and significantly decreases CAPZA2 affinity for actin

barbed ends. Increases the rate of elongation from seeds in the presence of CAPZA2, however, seems unable to nucleate filaments. Rapidly uncaps barbed ends capped by CAPZA2 and enhances barbed-end actin polymerization (By similarity).

LRRC16A Antibody (C-term) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Polasek, O., et al. Croat. Med. J. 51(1):32-39(2010)
Gunjaca, G., et al. Croat. Med. J. 51(1):23-31(2010)
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