

**LRRC16A Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP18234b****Specification**

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**LRRC16A Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q5VZK9](#)**LRRC16A Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 55604**Other Names**

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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**LRRC16A Antibody (C-term) Blocking Peptide - 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:<a href="http://www.uniprot.org/citations/16054028" target="\_blank">16054028</a>). Plays a role in lamellipodial protrusion formations and cell migration (PubMed:<a href="http://www.uniprot.org/citations/19846667" target="\_blank">19846667</a>).

**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) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **LRRC16A Antibody (C-term) Blocking Peptide - Images**

### **LRRC16A Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - 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)van der Harst, P., et al. Hum. Mol. Genet. 19(2):387-395(2010)Liang, Y., et al. Mol. Biol. Cell 20(24):5290-5305(2009)