

**MyoGEF Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6922a****Specification**

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**MyoGEF Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q3KR16](#)**MyoGEF Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 55200

**Other Names**

Pleckstrin homology domain-containing family G member 6, PH domain-containing family G member 6, Myosin-interacting guanine nucleotide exchange factor, MyoGEF, PLEKHG6

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6922a](/products/AP6922a) was selected from the N-term region of human MyoGEF. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**MyoGEF Antibody (N-term) Blocking Peptide - Protein Information**

Name PLEKHG6

**Function**

Guanine nucleotide exchange factor activating the small GTPase RHOA, which, in turn, induces myosin filament formation. Also activates RHOG. Does not activate RAC1, or to a much lower extent than RHOA and RHOG. Part of a functional unit, involving PLEKHG6, MYH10 and RHOA, at the cleavage furrow to advance furrow ingression during cytokinesis. In epithelial cells, required for the formation of microvilli and membrane ruffles on the apical pole. Along with EZR, required for normal macropinocytosis.

**Cellular Location**

Cell projection, microvillus. Cytoplasm, cytoskeleton, spindle. Cytoplasm, cytoskeleton, spindle pole. Cleavage furrow. Note=During mitosis, localizes to the spindle pole, central spindle and cleavage furrow (PubMed:16721066). In epithelial cells, recruited to the apical membrane by EZR

where it participates in macropinocytosis (PubMed:17881735)

**Tissue Location**

Highest expression in the placenta. Low levels in small intestine, lung, liver, kidney, thymus and heart

**MyoGEF Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**MyoGEF Antibody (N-term) Blocking Peptide - Images****MyoGEF Antibody (N-term) Blocking Peptide - Background**

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**MyoGEF Antibody (N-term) Blocking Peptide - References**

D'Angelo,R., et.al., Mol. Biol. Cell 18 (12), 4780-4793 (2007)