10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MyoGEF Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6922a

Specification

MyoGEF Antibody (N-term) - Product Information

Application	**FC, IHC-P, WB,E**
Primary Accession	Q3KR16
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**88960**
Antigen Region	**60-87**

MyoGEF Antibody (N-term) - 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
This MyoGEF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 60-87 amino acids from the N-terminal region of human MyoGEF.

Dilution
FC~~1:10~50
IHC-P~~1:50~100
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
MyoGEF Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MyoGEF Antibody (N-term) - 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)

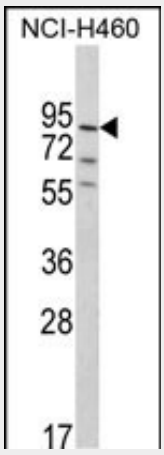
Tissue Location
Highest expression in the placenta. Low levels in small intestine, lung, liver, kidney, thymus and heart

MyoGEF Antibody (N-term) - 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

MyoGEF Antibody (N-term) - Images



Western blot analysis of MyoGEF Antibody (N-term) (Cat. #AP6922a) in NCI-H460 cell line lysates (35ug/lane). MyoGEF (arrow) was detected using the purified Pab.

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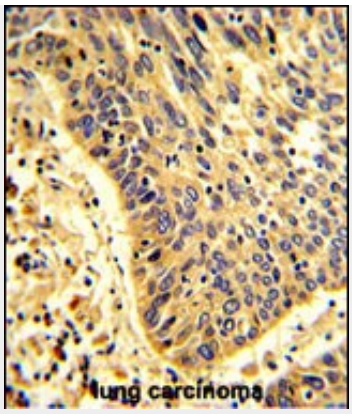
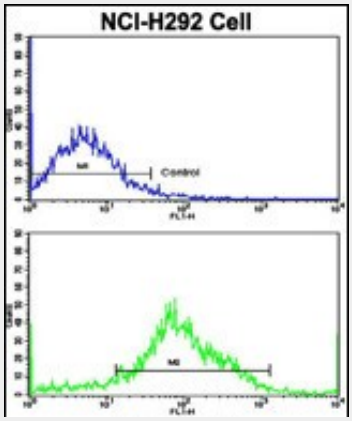


Formalin-fixed and paraffin-embedded human lung carcinoma with MyoGEF Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of NCI-H292 cells using MyoGEF Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

MyoGEF Antibody (N-term) - Background

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

MyoGEF Antibody (N-term) - References

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