

**RAPGEF3 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP14670a****Specification**

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**RAPGEF3 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [O95398](#)**RAPGEF3 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 10411**Other Names**

Rap guanine nucleotide exchange factor 3, Exchange factor directly activated by cAMP 1, Exchange protein directly activated by cAMP 1, EPAC 1, Rap1 guanine-nucleotide-exchange factor directly activated by cAMP, cAMP-regulated guanine nucleotide exchange factor I, cAMP-GEFI, RAPGEF3, CGEF1, EPAC, EPAC1

**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.

**RAPGEF3 Antibody (N-term) Blocking Peptide - Protein Information****Name** RAPGEF3**Synonyms** CGEF1, EPAC, EPAC1**Function**

Guanine nucleotide exchange factor (GEF) for RAP1A and RAP2A small GTPases that is activated by binding cAMP. Through simultaneous binding of PDE3B to RAPGEF3 and PIK3R6 is assembled in a signaling complex in which it activates the PI3K gamma complex and which is involved in angiogenesis. Plays a role in the modulation of the cAMP- induced dynamic control of endothelial barrier function through a pathway that is independent on Rho-mediated signaling. Required for the actin rearrangement at cell-cell junctions, such as stress fibers and junctional actin.

**Cellular Location**

Endomembrane system

**Tissue Location**

Widely expressed with highest levels in adult kidney, heart, thyroid and brain, and fetal kidney

## **RAPGEF3 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **RAPGEF3 Antibody (N-term) Blocking Peptide - Images**

## **RAPGEF3 Antibody (N-term) Blocking Peptide - Background**

Guanine nucleotide exchange factor (GEF) for RAP1A and RAP2A small GTPases that is activated by binding cAMP.

## **RAPGEF3 Antibody (N-term) Blocking Peptide - References**

Gloerich, M., et al. Mol. Cell. Biol. 30(22):5421-5431(2010) Rampersad, S.N., et al. J. Biol. Chem. 285(44):33614-33622(2010) Garay, J., et al. J. Immunol. 185(6):3227-3238(2010) Liu, C., et al. Mol. Cell. Biol. 30(16):3956-3969(2010) Umapathy, N.S., et al. J. Cell. Physiol. 223(1):215-223(2010)