

Anti-Epac1 Rabbit Monoclonal Antibody
Catalog # ABO14594**Specification**

Anti-Epac1 Rabbit Monoclonal Antibody - Product Information

Application	WB, IHC, IF, ICC, IP
Primary Accession	O95398
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-Epac1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP applications. This antibody reacts with Human, Mouse, Rat.

Anti-Epac1 Rabbit Monoclonal Antibody - 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

Application Details

WB 1:500-1:2000
IHC 1:50-1:200
ICC/IF 1:50-1:200
IP 1:50

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human Epac1 The activation of RaP1 by cAMP is independent of PKA and is mediated by recently discovered family of guanine nucleotide exchange factors (GEFs) called cAMP-GEFs or Epacs. The Epac signaling therefore represents a novel mechanism for cAMP signaling with in the cAMP cascade.

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-Epac1 Rabbit Monoclonal Antibody - 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

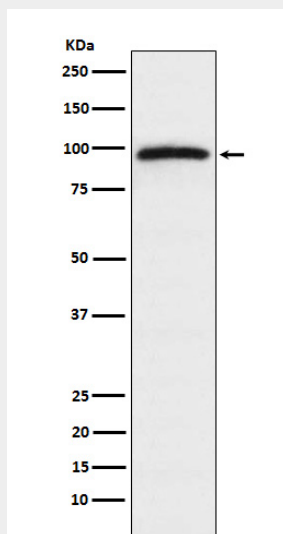
Widely expressed with highest levels in adult kidney, heart, thyroid and brain, and fetal kidney

Anti-Epac1 Rabbit Monoclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Epac1 Rabbit Monoclonal Antibody - Images



Western blot analysis of Epac1 expression in HeLa cell lysate.