

环磷酸腺苷调节鸟嘌呤核苷酸交换因子 1 抗体

产品货号： mlR8682

英文名称： Epac1

中文名称： 环磷酸腺苷调节鸟嘌呤核苷酸交换因子 1 抗体

别名： bcm910; CAMP GEF1; cAMP regulated guanine nucleotide exchange factor 1; CAMPGEF1; CGEF 1; CGEF1; EPA1; Epac 1; EPAC; EPAC1; Exchange factor directly activated by cAMP 1; Exchange protein directly activated by cAMP 1; MGC21410; RAP guanine nucleotide exchange factor; Rap guanine nucleotide exchange factor (GEF) 3; RAP guanine nucleotide exchange factor 3; Rap1 guanine nucleotide exchange factor directly activated by cAMP; RAPGEF3.

研究领域： 免疫学 神经生物学 信号转导

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Rabbit,

产品应用： ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500 （石蜡切片需做抗原修复）

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分子量： 99kDa

细胞定位： 细胞膜

性状： Lyophilized or Liquid

浓 度 : 1mg/ml

免 疫 原 : KLH conjugated synthetic peptide derived from human Epac1:301-400/923

亚 型 : IgG

纯化方法 : affinity purified by Protein A

储 存 液 : 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件 : Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed : PubMed

产品介绍 : 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 within the cAMP cascade. There are 2 members of the Epac family, Epac1 and Epac 2. Both proteins are multidomain proteins containing an autoinhibitory cAMP-binding domain that inhibits the catalytic region and a DEP domain (dishevelled, Egl-10 and pleckstrin homology domain) targeting the membrane anchors. EPAC2 has an additional cAMP-binding site in its N-terminus that binds cAMP with low affinity. EPAC1 mRNA is broadly expressed, with particularly high levels occurring in the thyroid, ovary, kidney and certain brain regions, whereas expression of EPAC2 mRNA appears to be restricted to the brain and adrenal glands. Epac 1 and Epac 2 also interact with light chain 2 (LC2) or MAP1A that serves as a scaffolding structure to stabilize the signal transduction complex. The Epac 1-selective antibodies were generated against unique antigenic sequences from near N-terminus and between RasGEFN and Ras GEF domains. The antibodies to Epac 1 are affinity purified over immobilized antigen based chromatography.

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 PI3K R6 is assembled in a signaling complex in which it activates the PI3K gamma complex and which is involved in angiogenesis.

Subunit:

Interacts with PDE3B.

Subcellular Location:

Endomembrane system

Tissue Specificity:

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

Similarity:

Contains 1 cyclic nucleotide-binding domain.

Contains 1 DEP domain.

Contains 1 N-terminal Ras-GEF domain.

Contains 1 Ras-GEF domain.

SWISS:

O95398

Gene ID:

10411

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

产品图片

