abcam

Product datasheet

Anti-Epac1 antibody ab124162

3 References 画像数 3

製品の概要

製品名	Anti-Epac1 antibody
製品の詳細	Rabbit polyclonal to Epac1
由来種	Rabbit
特異性	At least two isoforms of Epac1 are known to exist; this antibody will detect both isoforms. Epac1 antibody is predicted to not cross-react with Epac2.
アプリケーション	**適用あり:** WB, ICC/IF, IHC-P
種交差性	**交差種:** Rat
免疫原	Synthetic peptide corresponding to 18 amino acids near the N-terminus of Human Epac1 (NP_659099).
特記事項	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
バッファー	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: 99% PBS
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab124162の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 104 kDa.
ICC/IF		Use a concentration of 20 µg/ml.
IHC-P		Use at an assay dependent concentration.

ターゲット情報

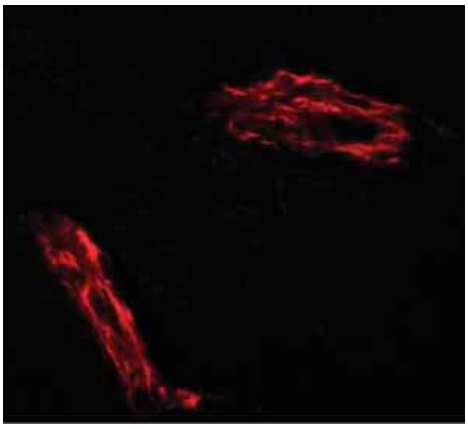
関連性

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. 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 form near N-terminus and between RasGEFN and Ras GEF domains. The antibodies to Epac 1are affinity purified over immobilized antigen based chromatography.

細胞内局在

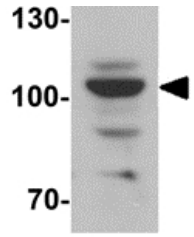
Endomembrane system

画像



Immunocytochemistry/ Immunofluorescence - Anti-Epac1 antibody (ab124162)

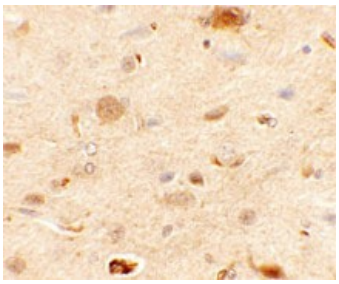
Immunofluorescence of EPAC1 in rat brain tissue with ab124162 at 20 ug/mL.



Western blot - Anti-Epac1 antibody (ab124162)

Anti-Epac1 antibody (ab124162) at 1 µg/ml + Rat skeletal muscle tissue lysate at 15 µg

Predicted band size: 104 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Epac1 antibody (ab124162)

Immunohistochemical analysis of rat brain tissue, staining Epac1 with ab124162 at 2.5 µg/ml.

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