

Product datasheet

Anti-ADCY7 antibody ab111244

2 图像

概述

产品名称	Anti-ADCY7抗体
描述	兔多克隆抗体to ADCY7
宿主	Rabbit
经测试应用	适用于: IHC-P, ICC/IF
种属反应性	与反应: Human 预测可用于: Mouse 
免疫原	Synthesized peptide derived from an internal region of Human ADCY7.
阳性对照	NIH3T3 cells; Human brain tissue.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, PBS, 0.88% Sodium chloride
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab111244** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

应用	Ab评论	说明
ICC/IF		1/100 - 1/500.

靶标

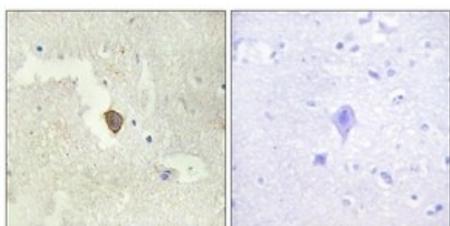
相关性

The membrane-bound adenylyl cyclases (ACs) represent one of the major families of effector enzymes for G protein-coupled receptors (GPCRs). Using the high inter-species homology of mammalian AC isoforms, nine Adenylyl cyclase (AC) isoforms, encoded by separate genes, have been identified until today. Human adenylyl cyclase genes comprise of 11 to 26 exons, which are distributed over 16 to 430kb. The expression profile of these 9 AC isoforms in a panel of 16 human tissues and in human embryonic kidney (HEK) cells have been demonstrated earlier. The cAMP synthesizing enzymes are found in two forms: cytosolic (soluble) and membrane-bound (particulate). Stimulation of adenylyl cyclases produce cAMP from ATP in response to the activation of GPCRs by various hormones, neurotransmitters and other regulatory molecules. cAMP, in subsequent steps down the signal transduction pathway, can stimulate cAMP-dependent protein kinase A (cPKA), and several other target molecules. Activation of cPKA can phosphorylate a broad range of substrates that regulate various metabolic pathways, gene expression, and affect memory functions etc. The stimulation of adenylyl cyclases starts with interactions with GPCRs mediated signals initiated by Gs and Gi heterotrimeric G-proteins. The interaction of GPCR agonist (eg. Interaction of isoprenalolol to beta2 receptors) catalyses the exchange of GDP to GTP that is bound to G proteins. The GTP binding reduces the affinity of Gs to other GTP binding proteins and Gs-GTP complex stimulate the adenylyl cyclase. In last several years, new members of particulate and soluble adenylyl cyclase family have been identified and significant progress is made in understanding of the molecular mechanisms that underlie the regulation of these families of enzymes.

细胞定位

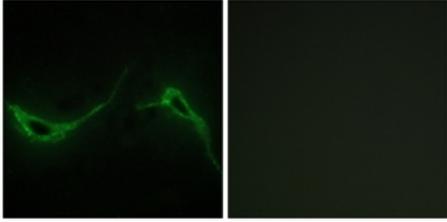
Integral membrane protein.

图片



Immunohistochemistry analysis of paraffin-embedded Human brain tissue, using 1/50 ab111244. The picture on the right is treated with the synthesized peptide

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ADCY7 antibody (ab111244)



Immunocytochemistry/ Immunofluorescence - Anti-ADCY7 antibody (ab111244)

Immunofluorescence analysis of NIH-3T3 cells, using 1/100 ab111244. The picture on the right is treated with the synthesized peptide.

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