abcam

Product datasheet

Anti-beta 1 Adrenergic Receptor antibody ab3442

5 Abreviews 55 References 画像数 3

製品の概要

製品名	Anti-beta 1 Adrenergic Receptor antibody
製品の詳細	Rabbit polyclonal to beta 1 Adrenergic Receptor
由来種	Rabbit
アプリケーション	**適用あり:** ICC, WB
種交差性	**交差種:** Mouse, Rat, Human, African green monkey **交差が予測される動物種:** Rhesus monkey
免疫原	Synthetic peptide corresponding to Mouse beta 1 Adrenergic Receptor aa 394-408. Sequence: HGDRPRASGCLARAG Run BLAST with Run BLAST with
ポジティブ・コントロール	WB: HeLa, HepG2, HEK-293T, A-431, A549, MCF7, U-2 OS, K562, COS7, MEF, C2C12 and NRK cell lysates. ICC: HeLa cells and mouse kidney distal tubule.
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. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.05% Sodium azide
精製度	Whole antiserum
一次抗体 備考	Adrenergic receptors (ARs) are members of the 7-transmembrane domain G-protein-coupled receptor superfamily that bind the endogenous catecholamines epinephrine and norepinephrine. Pharmacological, structural, and molecular cloning data indicate significant heterogeneity within this receptor family. Nine receptor subtypes have been identified thus far including three alpha-1

AR subtypes (1A/D, 1B, and 1C), three alpha-2 ARs (2A, 2B, and 2C), and three beta AR subtypes (1, 2, and 3). ARs participate in either the onset or maintenance of several disease states including hypertension, cardiac dysfunction (congestive heart failure, ischemia, arrhythmias), diabetes, glaucoma, depression, and impotence. BARs participate in diverse processes including development, behavior, cardiac function, smooth muscle tone, and metabolism. In gene-knockout experiments, the majority of mice that lack the B1AR gene die prenatally and those that do survive until adulthood display abnormal cardiac function. Other studies have shown that the direct regulation of cardiac B1AR density by thyroid hormones occurs at the transcriptional level and is modulated by the catecholamine sensitive-adenylyl cyclase system. Evidence for the effects of cAMP on B1AR regulation has come from a study of members of the cAMP response element (CRE) modulator (CREM) family of transcription factors in transformed cell lines.

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ab3442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
ICC	★★★★☆ (1)	1/100. Immunofluorescence staining of B1AR in mouse kidney distal tubule yields a pattern consistent with plasma membrane staining.
WB	★★★★★ (1)	1/1000. Detects a band of approximately 50.5 kDa (predicted molecular weight: 50 kDa).

ターゲット情報

機能 Beta-adrenergic receptors mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. This receptor binds epinephrine and norepinephrine with approximately equal affinity.

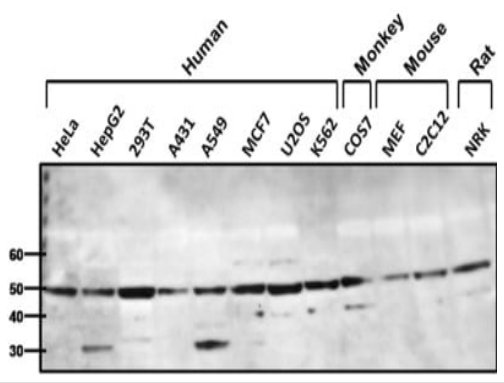
配列類似性 Belongs to the G-protein coupled receptor 1 family. Adrenergic receptor subfamily. ADRB1 sub-subfamily.

ドメイン The PDZ domain-binding motif mediates competitive interactions with GOPC, MAGI3 and DLG4 and plays a role in subcellular location of the receptor.

翻訳後修飾 Homologous desensitization of the receptor is mediated by its phosphorylation by beta-adrenergic receptor kinase.

細胞内局在 Cell membrane. Localized at the plasma membrane. Found in the Golgi upon GOPC overexpression.

画像



Western blot - Anti-beta 1 Adrenergic Receptor antibody (ab3442)

All lanes : Anti-beta 1 Adrenergic Receptor antibody (ab3442) at 1/1000 dilution

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate
Lane 2 : Hep G2 (Human liver hepatocellular carcinoma cell line) whole cell lysate
Lane 3 : HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate
Lane 4 : A-431 (Human epidermoid carcinoma cell line) whole cell lysate
Lane 5 : A549 (Human lung carcinoma cell line) whole cell lysate
Lane 6 : MCF7 (Human breast adenocarcinoma cell line) whole cell lysate
Lane 7 : U-2 OS (Human bone osteosarcoma epithelial cell line) whole cell lysate
Lane 8 : K-562 (Human chronic myelogenous leukemia lymphoblast cell line) whole cell lysate
Lane 9 : COS-7 (African green monkey kidney fibroblast-like cell line) whole cell lysate
Lane 10 : MEF (Mouse embryonic fibroblast cell line) whole cell lysate
Lane 11 : C2C12 (Mouse myoblast cell line) whole cell lysate
Lane 12 : NRK whole cell lysate

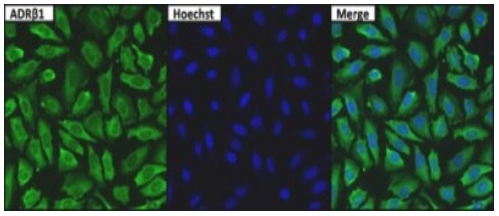
Lysates/proteins at 25 µg per lane.

Secondary
All lanes : HRP-conjugated Goat anti-Rabbit at 1/20000 dilution

Predicted band size: 50 kDa
Observed band size: 50 kDa
Additional bands at: 30 kDa. We are unsure as to the identity of these extra bands.

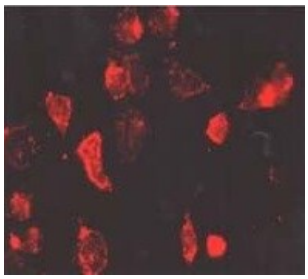
Western blot analysis of ADR-Beta-1 was performed by loading 25ug of various whole cell lysates onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked with 5% Milk/TBST for at least 1 hour. Membranes were probed with ab3442 at a dilution of 1/1000 overnight at 4°C on a rocking platform. Membranes were washed in

TBS-0.1%Tween 20 and probed with a goat anti-rabbit-HRP secondary antibody at a dilution of 1/20,000 for at least one hour. Membranes were washed and chemiluminescent detection performed.



Immunocytochemistry - Anti-beta 1 Adrenergic Receptor antibody (ab3442)

ab3442 at 1/100 dilution staining beta 1 Adrenergic Receptor in untreated HeLa cells by Immunocytochemistry/ Immunofluorescence. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 15 minutes at room temperature. Cells were then blocked with 5% normal goat serum for 15 minutes at room temperature. Cells were probed with a rabbit polyclonal antibody recognizing ADR-Beta-1, at a dilution of 1/100 for at least 1 hour at room temperature. Cells were washed with PBS and incubated with DyLight 488-conjugated goat-anti-rabbit secondary antibody at a dilution of 1/400 for 30 minutes at room temperature. Nuclei were stained with Hoechst 33342 dye.



Immunocytochemistry - Anti-beta 1 Adrenergic Receptor antibody (ab3442)

Immunolocalization of B1AR in mouse kidney distal tubule using ab3442.

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