

Anti-Beta-1 Adrenergic Receptor Antibody
Rabbit polyclonal antibody to Beta-1 Adrenergic Receptor
Catalog # AP60740

Specification

Anti-Beta-1 Adrenergic Receptor Antibody - Product Information

Application	WB, IF
Primary Accession	P08588
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51224

Anti-Beta-1 Adrenergic Receptor Antibody - Additional Information

Gene ID 153

Other Names

ADRB1R; B1AR; Beta-1 adrenergic receptor; Beta-1 adrenoreceptor; Beta-1 adrenoceptor

Target/Specificity

Recognizes endogenous levels of Beta-1 Adrenergic Receptor protein.

Dilution

WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)
IF~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-Beta-1 Adrenergic Receptor Antibody - Protein Information

Name ADRB1 ([HGNC:285](#))

Synonyms ADRB1R, B1AR

Function

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. Mediates Ras activation through G(s)-alpha- and cAMP-mediated signaling. Involved in the regulation of sleep/wake behaviors (PubMed: 31473062).

Cellular Location

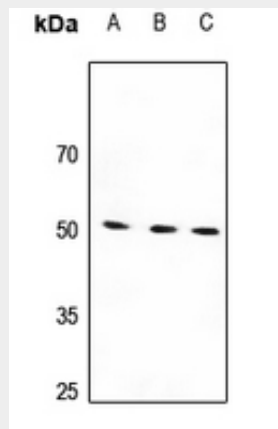
Cell membrane {ECO:0000250|UniProtKB:P18090}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P18090}. Early endosome. Note=Colocalizes with RAPGEF2 at the plasma membrane (By similarity). Localized at the plasma membrane. Found in the Golgi upon GOPC overexpression.

Anti-Beta-1 Adrenergic Receptor Antibody - Protocols

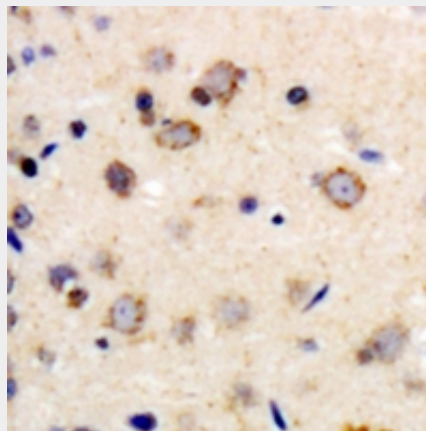
Provided below are standard protocols that you may find useful for product applications.

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

Anti-Beta-1 Adrenergic Receptor Antibody - Images

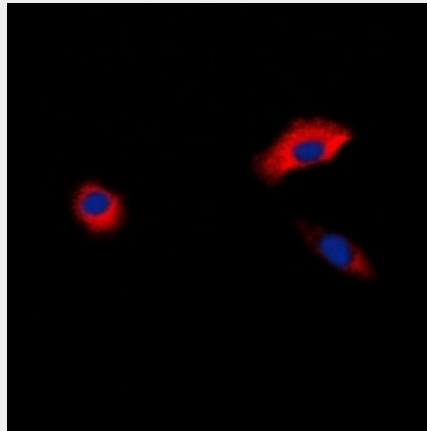


Western blot analysis of Beta-1 Adrenergic Receptor expression in mouse heart (A), rat heart (B), rat kidney (C) whole cell lysates.



Immunohistochemical analysis of Beta-1 Adrenergic Receptor staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at

room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Beta-1 Adrenergic Receptor staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Anti-Beta-1 Adrenergic Receptor Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Beta-1 Adrenergic Receptor. The exact sequence is proprietary.