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# 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/IC, IHC** |
| 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/IC~~N/A
IHC~~1:100~500

**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:<a href="http://www.uniprot.org/citations/31473062" target="_blank">31473062</a>).

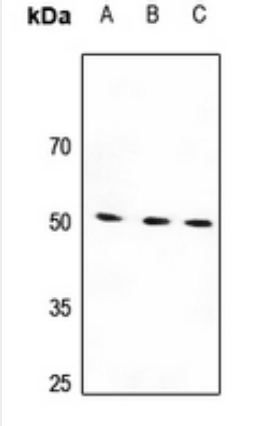
**Cellular Location**
Cell membrane {ECO:0000250|UniProtKB:P18090}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P18090}. Early endosome. Note=Colocalizes with RAPGEF2 at the plasma membrane (By similarity). Localized at the plasma membrane. Found in the Golgi upon GOPC overexpression.

## Anti-Beta-1 Adrenergic Receptor Antibody - Protocols

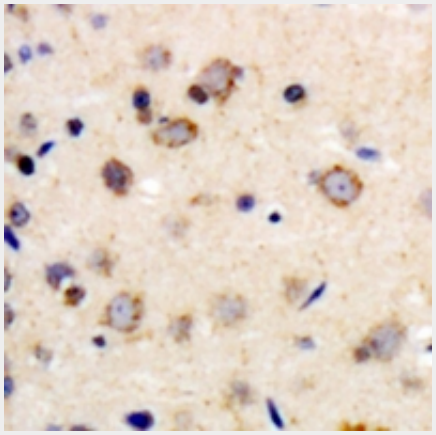
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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

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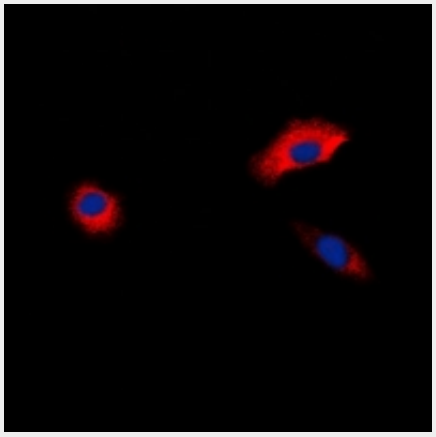
retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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 hidified 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.