

beta-1 Adrenergic Receptor Polyclonal Antibody

| Product Details | |
|--------------------|--|
| Size | 100 µL |
| Species Reactivity | Human, Mouse, Non-human primate, Rat |
| Published Species | Rat, Cat, Mouse, Human |
| Host/Isotype | Rabbit / IgG |
| Class | Polyclonal |
| Type | Antibody |
| Conjugate | Unconjugated |
| Immunogen | Synthetic peptide corresponding to residues H(394) G D R P R A S G C L A R A G(408) of mouse B1AR. |
| Form | Liquid |
| Concentration | Conc. Not Determined |
| Storage buffer | whole serum |
| Contains | 0.05% sodium azide |
| Storage Conditions | -20° C, Avoid Freeze/Thaw Cycles |
| RRID | AB_2289444 |

| Applications | Tested Dilution | Publications |
|------------------------------|-----------------|----------------|
| Western Blot (WB) | 1:1000 | 6 Publications |
| Immunohistochemistry (IHC) | Assay Dependent | 3 Publications |
| Immunocytochemistry (ICC/IF) | 1:100 | 2 Publications |

Product Specific Information

PA1-049 detects beta-1 adrenergic receptor (B1AR) from , human, mouse, non-human primate, and rat tissues.

PA1-049 has been successfully used in Western blot and immunofluorescence procedures. By Western blot, this antibody detects an ~50.5 kDa band representing B1AR in mouse kidney membrane preparation. Immunofluorescence staining of B1AR in mouse kidney distal tubule with PA1-049 yields a pattern consistent with plasma membrane staining.

The PA1-049 immunogen is a synthetic peptide corresponding to residues H(394) G D R P R A S G C L A R A G(408) of mouse B1AR. This sequence is completely conserved between mouse and rat B1AR.

Product Images For beta-1 Adrenergic Receptor Polyclonal Antibody

beta-1 Adrenergic Receptor Antibody (PA1-049) in ICC/IF

Immunofluorescent analysis of ADR-Beta-1 (green) in untreated HeLa cells. 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 (Product # 31873) for 15 minutes at room temperature. Cells were probed with a rabbit polyclonal antibody recognizing ADR-Beta-1 (Product # PA1-049), at a dilution of 1:100 for at least 1 hour at room temperature. Cells were washed with PBS and incubated with DyLight 488 goat-anti-rabbit secondary antibody (Product # 35552) at a dilution of 1:400 for 30 minutes at room temperature. Nuclei were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ArrayScan at 20X magnification.

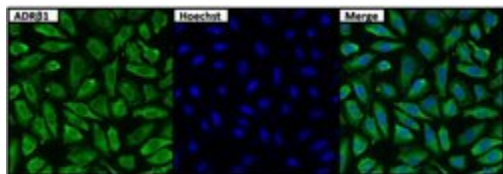
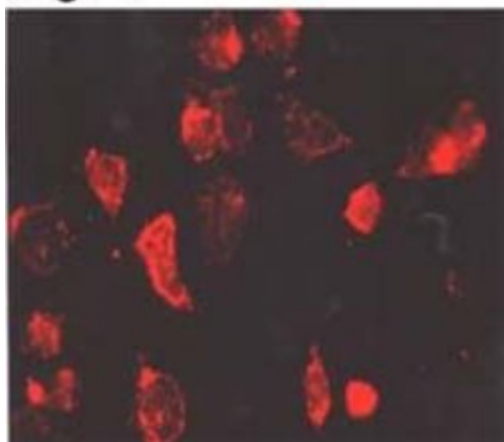


Fig. 1

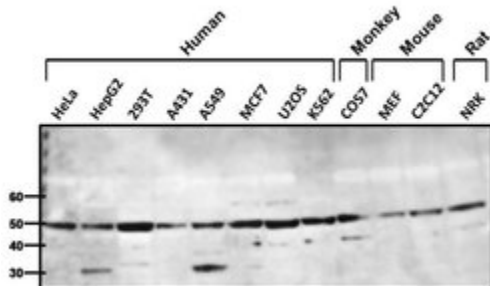


beta-1 Adrenergic Receptor Antibody (PA1-049) in IHC

Immunolocalization of B1AR in mouse kidney distal tubule using Product # PA1-049.

beta-1 Adrenergic Receptor Antibody (PA1-049) in WB

Western blot analysis of ADR-Beta-1 was performed by loading 25 µg 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 a rabbit polyclonal antibody recognizing ADR-Beta-1 (Product # PA1-049) 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 (Product # 31460) at a dilution of 1:20,000 for at least one hour. Membranes were washed and chemiluminescent detection performed using Pierce Super Signal West Pico (Product # 34077).



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11 References

Western Blot (6)

Frontiers in pharmacology

Aldosterone Jeopardizes Myocardial Insulin and -Adrenergic Receptor Signaling via G Protein-Coupled Receptor Kinase 2.

"PA1-049 was used in Western Blotting to reveal that GRK2 activity is a critical player downstream of the aldosterone signaling pathway; therefore, inhibiting this kinase is an attractive strategy to prevent the cardiac structural disarray and dysfunction that accompany any clinical condition accompanied by hyperaldosteronism."

Authors: Cannavo A, Marzano F, Elia A, Liccardo D, Bencivenga L, Gambino G, Perna C, Rapacciuolo A, Cittadini A, Ferrara N, Paolucci N, Koch WJ, Rengo G

Species
Mouse
Not Applicable

Dilution
1:1000
Not Cited

Year
2020

Age (Dordrecht, Netherlands)

Regulation of nicotinic acetylcholine receptor turnover by MuRF1 connects muscle activity to endo/lysosomal and atrophy pathways.

"Published figure using beta-1 Adrenergic Receptor polyclonal antibody (Product # PA1-049) in Western Blot"

Authors: Rudolf R, Bogomolovas J, Strack S, Choi KR, Khan MM, Wagner A, Brohm K, Hanashima A, Gasch A, Labeit D, Labeit S

Species
Not Applicable

Dilution
Not Cited

Year
2013

[View more WB references on thermofisher.com](#)

Immunohistochemistry (3)

Critical care medicine

Infusion of the beta-adrenergic blocker esmolol attenuates myocardial dysfunction in septic rats.

"PA1-049 was used in immunohistochemistry to investigate the effect of the beta-adrenergic blocker esmolol on myocardial dysfunction in septic rats"

Authors: Suzuki T, Morisaki H, Serita R, Yamamoto M, Kotake Y, Ishizaka A, Takeda J

Species
Rat

Dilution
1:200

Year
2005

Neuroscience research

Effects of monocular deprivation on the expression pattern of alpha-1 and beta-1 adrenergic receptors in the kitten visual cortex.

"PA1-049 was used in immunohistochemistry to study the regulation of adrenergic receptors by sensory afferents in kitten brains"

Authors: Nakadate K, Imamura K, Watanabe Y

Species
Cat

Dilution
1:1000

Year
2001

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More applications with references on thermofisher.com

ICC/IF (2)

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