

# alpha-2a Adrenergic Receptor Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues R(218) I Y Q I A K R R T R V P P S R R G(235) of the 3rd intracellular loop of human A2AAR.
Form	Liquid
Concentration	0.6 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2225243

Applications	Tested	Dilution	Published
Western Blot (WB)	✓	1:500	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1:100	2 Publications
Immunohistochemistry (IHC)	-		3 Publications
Immunocytochemistry (ICC)	-	1:1000	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	✓	1:1,000	

## Product Specific Information

PA1-048 detects alpha-2A adrenergic receptor (A2AAR) from human, rat and mouse tissues.

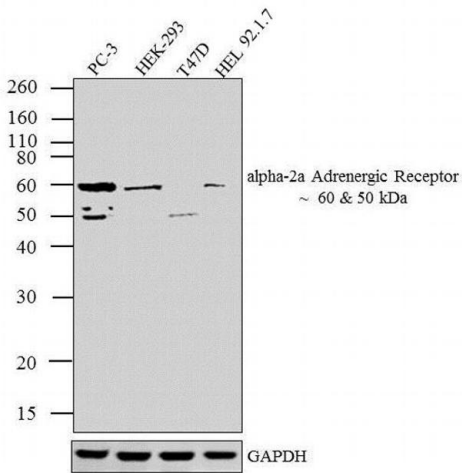
PA1-048 has been successfully used in Western blot and immunohistochemistry procedures. By Western blot, this antibody detects an ~45 kDa protein representing A2AAR from mouse kidney membrane preparations.

The PA1-048 immunogen is a synthetic peptide corresponding to residues R(218) I Y Q I A K R R T R V P P S R R G(235) of the 3rd intracellular loop of human A2AAR. This sequence is completely conserved between human, mouse, rat, and porcine A2AAR.

## Product Images For alpha-2a Adrenergic Receptor Polyclonal Antibody

### alpha-2a Adrenergic Receptor Antibody (PA1-048) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of PC-3 (Lane 1), HEK-293 (Lane 2), T47D (Lane 3) and HEL 92.1.7 (lane 4). The blots were probed with Anti-alpha-2a Adrenergic Receptor Rabbit Polyclonal Antibody (Product # PA1-048, 1:250-1:1000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (H+L) Secondary Antibody, HRP conjugate (Product # G-21234, 1:5000 dilution). Two bands 60 and 50 kDa corresponding to alpha-2a Adrenergic Receptor was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



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## Western Blot (2)

Audiology and neuro-otology

### Brimonidine Protects Auditory Hair Cells from in vitro-Induced Toxicity of Gentamicin.

Authors: Cortada M, Levano S, Bodmer D

**Species**  
Rat

**Dilution**  
Not Cited

**Year**  
2018

British journal of pharmacology

### Altered prejunctional modulation of intestinal cholinergic and noradrenergic pathways by alpha2-adrenoceptors in the presence of experimental colitis.

"PA1-048 was used in western blot to investigate the role of alpha2-adrenoceptors in intestinal inflammation"

Authors: Blandizzi C, Fornai M, Colucci R, Baschiera F, Barbara G, De Giorgio R, De Ponti F, Breschi MC, Del Tacca M

**Species**  
Rat  
Not Applicable

**Dilution**  
1:500  
Not Cited

**Year**  
2003

## Immunohistochemistry (Frozen) (2)

Genome biology

### Single-cell analysis of long non-coding RNAs in the developing human neocortex.

"PA1-048 was used in immunohistochemistry - frozen section to study the developing human neocortex for single-cell analysis of long non-coding RNAs"

Authors: Liu SJ, Nowakowski TJ, Pollen AA, Lui JH, Horlbeck MA, Attenello FJ, He D, Weissman JS, Kriegstein AR, Diaz AA, Lim DA

**Species**  
Not Applicable

**Dilution**  
1:100

**Year**  
2016

Nature biotechnology

### Low-coverage single-cell mRNA sequencing reveals cellular heterogeneity and activated signaling pathways in developing cerebral cortex.

"PA1-048 was used in immunohistochemistry - frozen section to analyze developing cerebral cortex and low-coverage single-cell mRNA sequencing that reveals activated signaling pathways and cellular heterogeneity"

Authors: Pollen AA, Nowakowski TJ, Shuga J, Wang X, Leyrat AA, Lui JH, Li N, Szpankowski L, Fowler B, Chen P, Ramalingam N, Sun G, Thu M, Norris M, Lebofsky R, Toppani D, Kemp DW, Wong M, Clerkson B, Jones BN, Wu S, Knutsson L, Alvarado B, Wang J, Weaver LS, May AP, Jones RC, Unger MA, Kriegstein AR, West JA

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2014

## More applications with references on thermofisher.com

IHC (3)    ICC (1)

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