

alpha-2a Adrenergic Receptor Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Mouse
Host/Isotype	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	Publications
Western Blot (WB)	1:500	4 Publications
Immunohistochemistry (IHC)	-	6 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:1,000	-
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	-	1 Publication

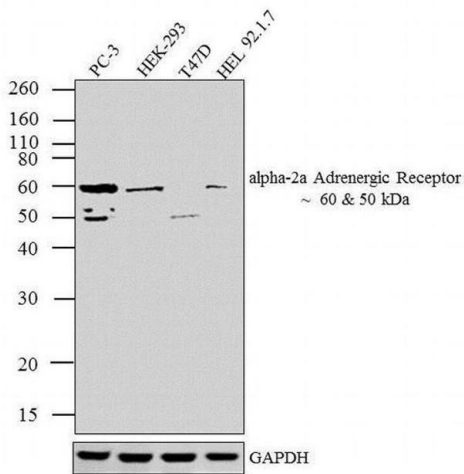
Product Specific Information

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).

[View more figures on thermofisher.com](https://thermofisher.com)

Western Blot (4)

ASN neuro

Norepinephrine Regulation of Adrenergic Receptor Expression, 5' AMP-Activated Protein Kinase Activity, and Glycogen Metabolism and Mass in Male Versus Female Hypothalamic Primary Astrocyte Cultures.

"PA1-048 was used in Western Blot to investigate the premise that NE imposes sex-specific direct control of AMPK activity and glycogen mass and metabolism in these glia, using a rat hypothalamic astrocyte primary culture model."

Authors: Ibrahim MMH,Bheemanapally K,Sylvester PW,Briski KP

Year
2021

Species
Rat

Dilution
1:1000

Frontiers in pharmacology

Zerumbone Modulates α_2 -Adrenergic, TRPV1, and NMDA NR2B Receptors Plasticity in CCI-Induced Neuropathic Pain *In Vivo* and LPS-Induced SH-SY5Y Neuroblastoma *In Vitro* Models.

"Published figure using alpha-2a Adrenergic Receptor polyclonal antibody (Product # PA1-048) in Western Blot"

Authors: Chia JSM,Izham NAM,Farouk AAO,Sulaiman MR,Mustafa S,Hutchinson MR,Perimal EK

Year
2020

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

Immunohistochemistry (6)

Translational neuroscience

Singular versus combinatory glucose-sensitive signal control of metabolic sensor protein profiles in hypothalamic astrocyte cultures from each sex.

"PA1-048 was used in Immunohistochemistry-immunofluorescence to show that DEX and NE regulation of GLUT2 is sex-monomorphic, but both stimuli impose divergent sex-specific effects on AMPK and pAMPK."

Authors: Alhamyani A,Napit PR,Bheemanapally K,Sylvester PW,Briski KP

Year
2022

Species
Rat

Dilution
1:1000

Scientific reports

Carotid smooth muscle contractility changes after severe burn.

"Published figure using alpha-2a Adrenergic Receptor polyclonal antibody (Product # PA1-048) in Immunohistochemistry"

Authors: DeSpain K,Rosenfeld CR,Huebinger R,Wang X,Jay JW,Radhakrishnan RS,Wolf SE,Song J

Year
2021

Species
Rat

Dilution
1:75

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

More applications with references on thermofisher.com

IHC (F) (2)

ICC/IF (1)

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