

ADRA2A polyclonal antibody

Catalog # PAB6968

Size 100 ug

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of ADRA2A.
Immunogen	A synthetic peptide corresponding to human ADRA2A.
Sequence	C-TERRP NGLGPERS
Host	Goat
Theoretical MW (kDa)	49
Reactivity	Mouse
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:32000) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunofluorescence

- Enzyme-linked Immunoabsorbent Assay

Gene Info — ADRA2A

Entrez GeneID	150
Protein Accession#	NP_000672.2
Gene Name	ADRA2A
Gene Alias	ADRA2, ADRA2R, ADRAR, ALPHA2AAR, ZNF32
Gene Description	adrenergic, alpha-2A-, receptor
Omim ID	104210
Gene Ontology	Hyperlink
Gene Summary	Alpha-2-adrenergic receptors are members of the G protein-coupled receptor superfamily. They include 3 highly homologous subtypes: alpha2A, alpha2B, and alpha2C. These receptors have a critical role in regulating neurotransmitter release from sympathetic nerves and from adrenergic neurons in the central nervous system. Studies in mouse revealed that both the alpha2A and alpha2C subtypes were required for normal presynaptic control of transmitter release from sympathetic nerves in the heart and from central noradrenergic neurons; the alpha2A subtype inhibited transmitter release at high stimulation frequencies, whereas the alpha2C subtype modulated neurotransmission at lower levels of nerve activity. This gene encodes alpha2A subtype and it contains no introns in either its coding or untranslated sequences. [provided by RefSeq]
Other Designations	OTTHUMP00000058849 alpha-2-adrenergic receptor, platelet type alpha-2A adrenoceptor alpha-2A-adrenergic receptor alpha-2AAR subtype C10 alpha2A adrenergic receptor

Publication Reference

- [Activation of locus coeruleus-spinal cord noradrenergic neurons alleviates neuropathic pain in mice via reducing neuroinflammation from astrocytes and microglia in spinal dorsal horn.](#)

Juan Li, Yiyong Wei, Junli Zhou, Helin Zou, Lulin Ma, Chengxi Liu, Zhi Xiao, Xingfeng Liu, Xinran Tan, Tian Yu and Song Cao.
Journal of Neuroinflammation 2022 May; 19(1):123.

Application: IF, Mouse, mouse spinal cord

- [p38 MAPK and beta-arrestin 2 mediate functional interactions between endogenous micro-opioid and alpha2A-adrenergic receptors in neurons.](#)

Tan M, Walwyn WM, Evans CJ, Xie CW.
The Journal of Biological Chemistry 2009 Jan; 284(10):6270.

Pathway

- [Neuroactive ligand-receptor interaction](#)

Disease

- [Acute Disease](#)
- [Alcoholism](#)
- [Alzheimer disease](#)
- [Anorexia Nervosa](#)
- [Attention](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Body Weight](#)
- [Brief Psychiatric Rating Scale](#)
- [Bulimia](#)
- [Cardiovascular Diseases](#)
- [Choice Behavior](#)
- [Cognition](#)
- [Colitis](#)
- [Constipation](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Drug Toxicity](#)

- [Dyskinesia](#)
- [Dyslexia](#)
- [Dyspepsia](#)
- [Edema](#)
- [Extraversion \(Psychology\)](#)
- [Genetic Predisposition to Disease](#)
- [Hemorrhagic Disorders](#)
- [Hypercholesterolemia](#)
- [Hypertension](#)
- [Hyperuricemia](#)
- [Hypotension](#)
- [Impulse Control Disorders](#)
- [Insulin Resistance](#)
- [Irritable Bowel Syndrome](#)
- [Liver Cirrhosis](#)
- [Low Back Pain](#)
- [Low Tension Glaucoma](#)
- [Memory](#)
- [Mental Disorders](#)
- [Metabolic Syndrome X](#)
- [Motion Sickness](#)
- [Myocardial Ischemia](#)
- [Myocardial Stunning](#)
- [NARP](#)
- [Neoplasms](#)
- [Neuropsychological Tests](#)
- [Obesity](#)

- [Osteoporosis](#)
- [Overweight](#)
- [Pain](#)
- [Parkinson disease](#)
- [Personality Disorders](#)
- [Personality Tests](#)
- [Problem Solving](#)
- [Psychiatric Status Rating Scales](#)
- [Psychological Tests](#)
- [Psychomotor Performance](#)
- [Reaction Time](#)
- [Satiation](#)
- [Schizophrenia](#)
- [Sciatica](#)
- [Sensation](#)
- [Sleep Apnea](#)
- [Stress](#)
- [Subarachnoid Hemorrhage](#)
- [Thinness](#)
- [Tourette Syndrome](#)
- [Ventricular Dysfunction](#)
- [Weight Gain](#)
- [Weight Loss](#)