



Mouse Anti-Human ADORA2A monoclonal antibody, clone WNB11191 (CABT-L1968)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Adenosine receptor A2A antibody recognizes the adenosine receptor A2A protein, also known as adenosine receptor subtype A2A. This antibody has been extensively validated for western blotting using whole cell lysates.
Target	Human ADORA2A
Immunogen	E. Coli derived recombinant protein, representing aa 290-412 of the human adenosine A2A receptor
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	WNB11191
Purification	Affinity chromatography on Protein G from tissue culture supernatant
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	100 µl
Buffer	PBS

Preservative	0.09% Sodium Azide
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

BACKGROUND

Introduction	Adenosine receptor A2A is a member of the guanine nucleotide-binding protein (G protein)-coupled receptor (GPCR) superfamily, which is subdivided into classes and subtypes. The receptors are seven-pass transmembrane proteins that respond to extracellular cues and activate intracellular signal transduction pathways. Adenosine receptor of A2A subtype uses adenosine as the preferred endogenous agonist and preferentially interacts with the G(s) and G(olf) family of G proteins to increase intracellular cAMP levels. It plays an important role in many biological functions, such as cardiac rhythm and circulation, cerebral and renal blood flow, immune function, pain regulation and sleep. It has been implicated in pathophysiological conditions such as inflammatory diseases and neurodegenerative disorders. Alternative splicing results in multiple transcript variants. A read-through transcript composed of the upstream SPECC1L (sperm antigen with calponin homology and coiled-coil domains 1-like) and ADORA2A (adenosine A2a receptor) gene sequence has been identified, but it is thought to be non-coding.
Keywords	ADORA2A; adenosine A2a receptor; A2aR; RDC8; ADORA2; adenosine receptor A2a; adenosine receptor subtype A2a;

GENE INFORMATION

Gene Name	ADORA2A adenosine A2a receptor [Homo sapiens (human)]
Official Symbol	ADORA2A
Synonyms	ADORA2A; adenosine A2a receptor; A2aR; RDC8; ADORA2; adenosine receptor A2a; adenosine receptor subtype A2a;
Entrez Gene ID	135
UniProt ID	B3KVQ4
Chromosome Location	22q11.23
Pathway	Activation of TRKA receptors; Adenosine P1 receptors; Alcoholism; Calcium signaling pathway; Class A/1 (Rhodopsin-like receptors); Defective ACTH causes Obesity and Pro-opiomelanocortinin deficiency (POMCD); Disease; G alpha (s) signalling events;
Function	G-protein coupled adenosine receptor activity; enzyme binding; identical protein binding; protein binding;