10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ADORA2A Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10467C

Product Information

Application	WB, IF, E
Primary Accession	P29274
Other Accession	P30543, Q60613, NP_000666.2
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB27507
Calculated MW	44707
Antigen Region	273-301

Additional Information

Gene ID	135
Other Names	Adenosine receptor A2a, ADORA2A, ADORA2
Target/Specificity	This ADORA2A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 273-301 amino acids from the Central region of human ADORA2A.
Dilution	WB~~1:1000 IF~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ADORA2A Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ADORA2A
Synonyms	ADORA2
Function	Receptor for adenosine (By similarity). The activity of this receptor is

	mediated by G proteins which activate adenylyl cyclase (By similarity).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P30543}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P30543} Note=Colocalizes with GAS2L2 at neuronal processes {ECO:0000250|UniProtKB:P30543}

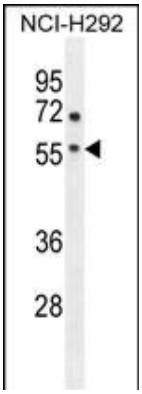
Background

ADORA2A is a protein which is one of several receptor subtypes for adenosine. The activity of the encoded protein, a G-protein coupled receptor family member, is mediated by G proteins which activate adenylyl cyclase. This protein is abundant in basal ganglia, vasculature and platelets and it is a major target of caffeine.

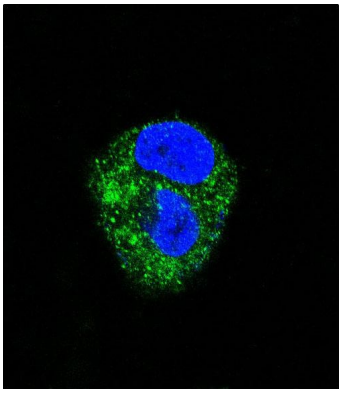
References

Buira, S.P., et al. J. Neurochem. 115(1):283-295(2010)
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Rogers, P.J., et al. Neuropsychopharmacology 35(9):1973-1983(2010)
Tebano, M.T., et al. ScientificWorldJournal 10, 1768-1782 (2010) :
Kobayashi, H., et al. Behav Brain Funct 6, 50 (2010) :

Images



ADORA2A Antibody (Center) (Cat. #AP10467c) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the ADORA2A antibody detected the ADORA2A protein (arrow).



Confocal immunofluorescent analysis of ADORA2A Antibody (Center) (Cat#AP10467c) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).