

Summary

Production Name	AR α 2A Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IF,IHC,WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	ADRA2A
Alternative Names	ADRA2A; ADRA2R; ADRAR; Alpha-2A adrenergic receptor; Alpha-2 adrenergic receptor subtype C10; Alpha-2A adrenoreceptor; Alpha-2A adrenoceptor; Alpha-2AAR
Gene ID	150.0
SwissProt ID	P08913.The antiserum was produced against synthesized peptide derived from human Adrenergic Receptor alpha-2A. AA range:331-380

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
Molecular Weight	48kD

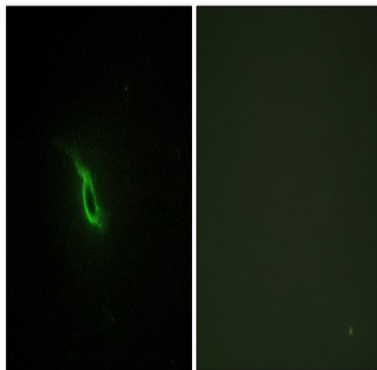
Background

Alpha-2-adrenergic receptors are members of the G protein-coupled receptor superfamily. They include 3 highly homologous subtypes: α 2A, α 2B, and α 2C. 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 α 2A and α 2C subtypes were required for normal presynaptic control of transmitter release from sympathetic nerves in the heart and from central noradrenergic neurons; the α 2A subtype inhibited transmitter release at high stimulation frequencies, whereas the α 2C subtype modulated neurotransmission at lower levels of nerve activity. This gene encodes α 2A subtype and it contains no introns in either its coding or untranslated sequences. [provided by RefSeq, Jul 2008],function:Alpha-2 adrenergic receptors mediate the catecholamine-induced inhibition of adenylate cyclase through the action of G proteins. The rank order of potency for agonists of this receptor is oxymetazoline > clonidine > epinephrine > norepinephrine > phenylephrine > dopamine > p-synephrine > p-tyramine > serotonin = p-octopamine. For antagonists, the rank order is yohimbine > phentolamine = mianserine > chlorpromazine = spiperone = prazosin > propranolol > alprenolol = pindolol.,similarity:Belongs to the G-protein coupled receptor 1 family.,

Research Area

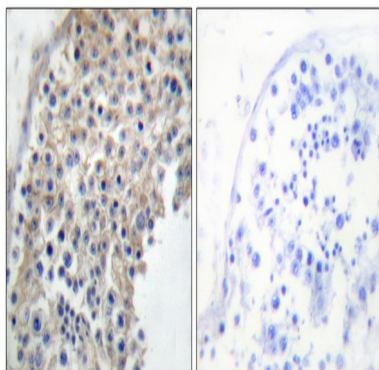
Neuroactive ligand-receptor interaction;

Image Data



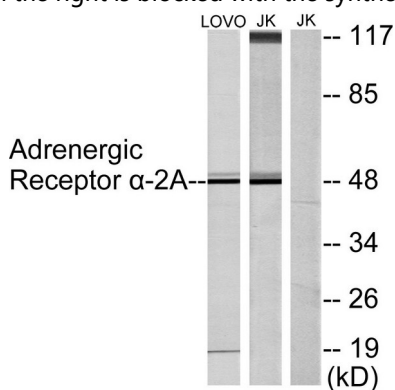
Immunofluorescence analysis of NIH/3T3 cells, using Adrenergic Receptor α -2A Antibody. The picture on the right is blocked with the synthesized peptide.

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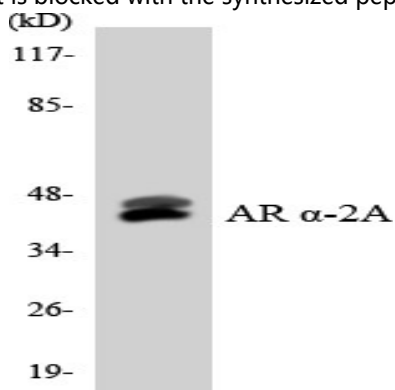


Immunohistochemistry analysis of paraffin-embedded human testis tissue, using Adrenergic Receptor alpha-2A Antibody.

The picture on the right is blocked with the synthesized peptide.

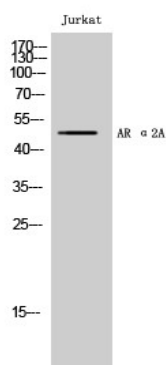


Western blot analysis of lysates from Jurkat and LOVO cells, using Adrenergic Receptor alpha-2A Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from Jurkat cells using Adrenergic Receptor α -2A antibody.

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Western Blot analysis of Jurkat cells using AR α 2A Polyclonal Antibody

Note

For research use only.