

ADRA2A Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50657

Product Information

Application	WB, IF
Primary Accession	P08913
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Calculated MW	50647

Additional Information

Gene ID	150
Other Names	Alpha-2A adrenergic receptor, Alpha-2 adrenergic receptor subtype C10, Alpha-2A adrenoreceptor, Alpha-2A adrenoceptor, Alpha-2AAR, ADRA2A, ADRA2R, ADRAR
Dilution	WB~~1:500 IF~~1:100
Format	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.
Storage Conditions	-20°C

Protein Information

Name	ADRA2A (HGNC:281)
Synonyms	ADRA2R, ADRAR
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 > propanolol > alprenolol = pindolol.
Cellular Location	Cell membrane; Multi-pass membrane protein

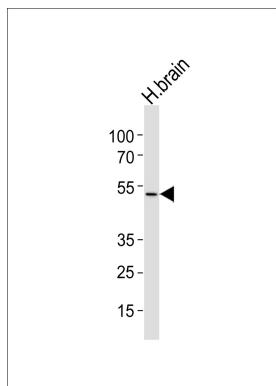
Background

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 > propanolol > alprenolol = pindolol.

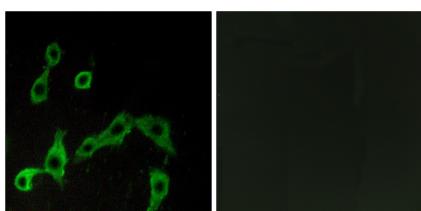
References

- Kobilka B.K.,et al.Science 238:650-656(1987).
Fraser C.M.,et al.J. Biol. Chem. 264:11754-11761(1989).
Guyer C.A.,et al.J. Biol. Chem. 265:17307-17317(1990).
Small K.M.,et al.J. Biol. Chem. 275:38518-38523(2000).
Small K.M.,et al.Proc. Natl. Acad. Sci. U.S.A. 103:5472-5477(2006).

Images



Western blot analysis of lysate from H.brain cell line, using ADRA2A Antibody(AP50657). AP50657 was diluted at 1:500. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



Immunofluorescence analysis of LOVO cells, using ADRA2A antibody.

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