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Adrenergic Receptor alpha-2B Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50039

Product Information

Application	WB, IF
Primary Accession	P18089
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Calculated MW	49954

Additional Information

Gene ID	151
Other Names	Alpha-2B adrenergic receptor, Alpha-2 adrenergic receptor subtype C2, Alpha-2B adrenoreceptor, Alpha-2B adrenoceptor, Alpha-2BAR, ADRA2B, ADRA2L1, ADRA2RL1
Dilution	WB~~ 1:1000 IF~~1:100
Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.
Storage Conditions	-20℃

Protein Information

Name	ADRA2B (HGNC:282)
Synonyms	ADRA2L1, ADRA2RL1
Function	Alpha-2 adrenergic receptors are G protein-coupled receptors for catecholamines that activate G(i/o) protein pathway, thereby promoting adenylyl cyclase inhibition, ERK1/2 stimulation, and voltage- gated calcium channels suppression (PubMed:11056163, PubMed:2164221, PubMed:2172775, PubMed:23105096, PubMed:26811329). Control a variety of physiological processes, such as regulation of blood pressure, lipolysis and insulin release (PubMed:2164221). The rank order of potency for agonists of ADRA2B is clonidine > norepinephrine > epinephrine = oxymetazoline > dopamine > p-tyramine = phenylephrine > serotonin > p-synephrine / p-octopamine. For antagonists, the rank order is yohimbine > chlorpromazine > phentolamine > mianserine > spiperone > prazosin > alprenolol > propanolol > pindolol (PubMed:2164221, PubMed:2172775).
Cellular Location	Cell membrane; Multi-pass membrane protein Note=Interaction with RAB26,

GGA1, GGA2 and GGA3 mediates transport from the Golgi to the cell membrane.

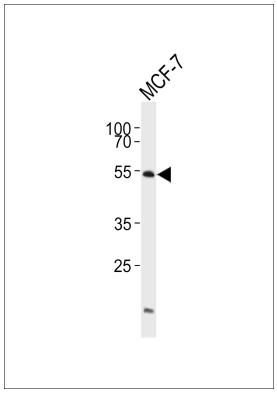
Background

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 clonidine > norepinephrine > epinephrine = oxymetazoline > dopamine > p-tyramine = phenylephrine > serotonin > p-synephrine / p-octopamine. For antagonists, the rank order is yohimbine > chlorpromazine > phentolamine > mianserine > spiperone > prazosin > alprenolol > propanolol > pindolol.

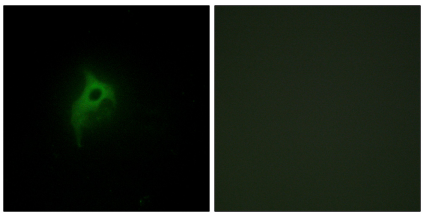
References

Lomasney J.W.,et al.Proc. Natl. Acad. Sci. U.S.A. 87:5094-5098(1990).
Weinshank R.L.,et al.Mol. Pharmacol. 38:681-688(1990).
Small K.M.,et al.J. Biol. Chem. 276:4917-4922(2001).
Cayla C.,et al.Biochem. Pharmacol. 67:469-478(2004).
Kopatz S.A.,et al.Submitted (FEB-2004) to the EMBL/GenBank/DDBJ databases.

Images



Western blot analysis of lysates from MCF-7 cell line ,using Adrenergic Receptor alpha-2B Antibody(C10415). C10415 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysates at 35ug.



Immunofluorescence analysis of HepG2 cells, using Adrenergic Receptor alpha-2B antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.