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(DANRE) adra2a Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21215c

Product Information

Application	WB, E
Primary Accession	Q90WY4
Reactivity	Zebrafish
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB52053
Calculated MW	43997

Additional Information

Other Names	Alpha-2A adrenergic receptor, Alpha-2A adrenoreceptor, Alpha-2A adrenoceptor, Alpha-2AAR, adra2a
Target/Specificity	This DANRE adra2a antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 223-256 amino acids from the Central region of DANRE adra2a.
Dilution	WB~~1:1000 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	(DANRE) adra2a Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	adra2a {ECO:0000250|UniProtKB:P08913}
Function	Alpha-2 adrenergic receptors are G protein-coupled receptors for catecholamines that activate the G(i/o) protein pathway, thereby promoting adenylyl cyclase inhibition, ERK1/2 stimulation, and voltage- gated calcium channels suppression (PubMed:15655522). ADRA2A and ADRA2C mediates the presynaptic feedback inhibition of neurotransmitter release from noradrenergic nerve terminals in sympathetic and central nervous systems. ADRA2A inhibits transmitter release at high stimulation frequencies, whereas

	ADRA2C modulates neurotransmission at lower levels of nerve activity (By similarity). The order of potency for this receptor is dexmedetomidine > oxymetazoline = epinephrine > norepinephrine (PubMed:15655522).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P08913}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P08913}

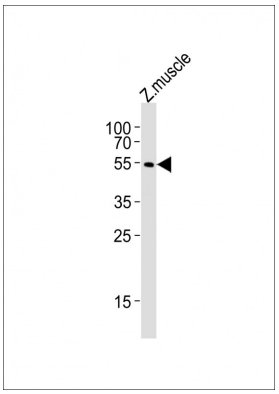
Background

Alpha-2 adrenergic receptors mediate the catecholamine- induced inhibition of adenylate cyclase through the action of G proteins. The order of potency for this receptor is dexmedetomidine > oxymetazoline = epinephrine > norepinephrine.

References

Ruuskanen J.O.,et al.Mol. Biol. Evol. 21:14-28(2004).
Ruuskanen J.O.,et al.Br. J. Pharmacol. 144:165-177(2005).

Images



Anti-(DANRE) adra2a Antibody (Center) at 1:2000 dilution + zebrafish muscle lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 44 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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