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

ADCY5 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21676c

Product Information

Application	WB, E
Primary Accession	O95622
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB53332
Calculated MW	138908

Additional Information

Gene ID	111
Other Names	Adenylate cyclase type 5, ATP pyrophosphate-lyase 5, Adenylate cyclase type V, Adenylyl cyclase 5, ADCY5
Target/Specificity	This ADCY5 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 604-639 amino acids from the Central region of human ADCY5.
Dilution	WB~~1:1000-1:2000 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	ADCY5 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ADCY5
Function	Catalyzes the formation of the signaling molecule cAMP in response to G protein signaling (PubMed:15385642, PubMed:24700542, PubMed:26206488). Mediates signaling downstream of ADRB1 (PubMed:24700542). Regulates the increase of free cytosolic Ca(2+) in response to increased blood glucose levels

	and contributes to the regulation of Ca(2+)-dependent insulin secretion (PubMed:24740569).
Cellular Location	Cell membrane; Multi-pass membrane protein. Cell projection, cilium {ECO:0000250|UniProtKB:P84309}
Tissue Location	Detected in pancreas islets (at protein level). Expressed in the brain, with high expression in the corpus striatum (PubMed:26085604).

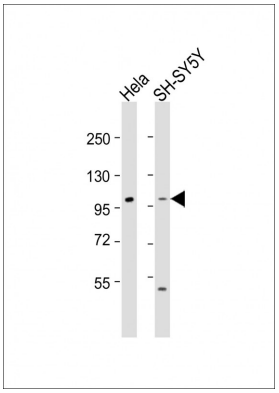
Background

This is a membrane-bound, calcium-inhibitable adenylyl cyclase.

References

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Muzny D.M.,et al.Nature 440:1194-1198(2006).
Ludwig M.G.,et al.J. Recept. Signal Transduct. 22:79-110(2002).
Raimundo S.,et al.Clin. Chim. Acta 285:155-161(1999).
Ding Q.,et al.Mol. Pharmacol. 66:921-928(2004).

Images



All lanes : Anti-ADCY5 Antibody (Center) at 1:1000-1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: SH-SY5Y whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 139 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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