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

Adenylate Cyclase 5/6 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50965

Product Information

Application	WB
Primary Accession	O95622
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
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	KLH conjugated synthetic peptide derived from human Adenylate Cyclase 5/6
Dilution	WB~~ 1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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).

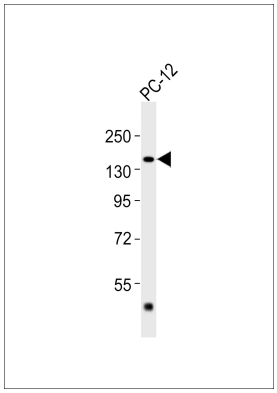
Background

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

References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
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



Anti-Adenylate Cyclase 5/6 Antibodyat 1:1000 dilution + PC-12 whole cell lysates 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.