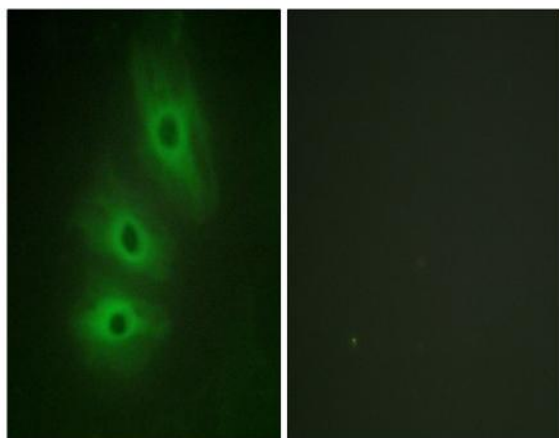


A Cyclase V/VI Polyclonal Antibody

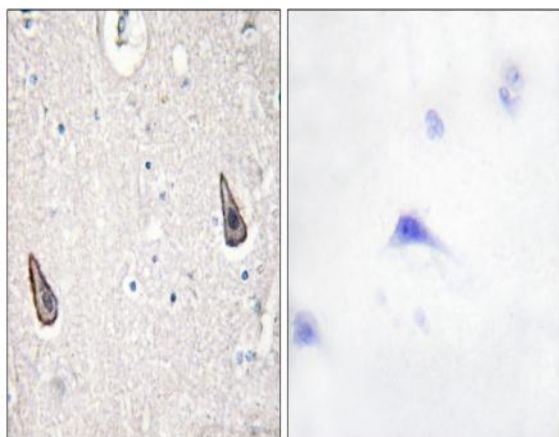
Catalog No :	YT0033
Reactivity :	Human;Mouse;Rat
Applications :	IHC;IF;ELISA
Target :	ADCY5
Fields :	>>Purine metabolism;>>Metabolic pathways;>>Endocrine resistance;>>Rap1 signaling pathway;>>cGMP-PKG signaling pathway;>>cAMP signaling pathway;>>Chemokine signaling pathway;>>Phospholipase D signaling pathway;>>Oocyte meiosis;>>Longevity regulating pathway;>>Longevity regulating pathway - multiple species;>>Adrenergic signaling in cardiomyocytes;>>Vascular smooth muscle contraction;>>Apelin signaling pathway;>>Gap junction;>>Platelet activation;>>Circadian entrainment;>>Thermogenesis;>>Retrograde endocannabinoid signaling;>>Glutamatergic synapse;>>Cholinergic synapse;>>GABAergic synapse;>>Taste transduction;>>Inflammatory mediator regulation of TRP channels;>>Insulin secretion;>>GnRH signaling pathway;>>Ovarian steroidogenesis;>>Progesterone-mediated oocyte maturation;>>Estrogen signaling pathway;>>Melanogenesis;>>Thyroid hormone synthesis;>>Oxytocin signaling pathway;>>Regulation of lipolysis in adipocytes;>>Renin secretion;>>Aldosterone synthesis and secretion;>>Relaxin signaling pat
Gene Name :	ADCY5/ADCY6
Protein Name :	Adenylate cyclase type 5/6
Human Gene Id :	112/111
Human Swiss Prot No :	O43306/O95622
Mouse Gene Id :	11512/224129
Rat Gene Id :	64532
Rat Swiss Prot No :	Q03343/Q04400
Immunogen :	The antiserum was produced against synthesized peptide derived from human ADCY5/6. AA range:931-980

Specificity :	A Cyclase V/VI Polyclonal Antibody detects endogenous levels of A Cyclase V/VI protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	131kD
Cell Pathway :	Purine metabolism;Chemokine;Oocyte meiosis;Vascular smooth muscle contraction;Gap junction;Taste transduction;GnRH;Progesterone-mediated oocyte maturation;Melanogenesis;Dilated cardiomyopathy;
Background :	This gene encodes a member of the adenylyl cyclase family of proteins, which are required for the synthesis of cyclic AMP. All members of this family have an intracellular N-terminus, a tandem repeat of six transmembrane domains separated by a cytoplasmic loop, and a C-terminal cytoplasmic domain. The two cytoplasmic regions bind ATP and form the catalytic core of the protein. Adenylyl cyclases are important effectors of transmembrane signaling pathways and are regulated by the activity of G protein coupled receptor signaling. This protein belongs to a small subclass of adenylyl cyclase proteins that are functionally related and are inhibited by protein kinase A, calcium ions and nitric oxide. A mutation in this gene is associated with arthrogryposis multiplex congenita. [provided by RefSeq, May 2015],
Function :	catalytic activity:ATP = 3',5'-cyclic AMP + diphosphate.,cofactor:Binds 2 magnesium ions per subunit.,enzyme regulation:Inhibition by calcium in the submicromolar concentration range.,function:Membrane-bound, calcium-inhibitable adenylyl cyclase.,similarity:Belongs to the adenylyl cyclase class-4/guanylyl cyclase family.,similarity:Contains 2 guanylate cyclase domains.,
Subcellular Location :	Cell membrane ; Multi-pass membrane protein . Cell projection, cilium . Cell projection, stereocilium .
Expression :	Detected in peripheral blood mononuclear leukocytes (at protein level) (PubMed:17916776). Detected in thyroid (PubMed:10978539).

Products Images



Immunofluorescence analysis of HeLa cells, using ADCY5/6 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using ADCY5/6 Antibody. The picture on the right is blocked with the synthesized peptide.