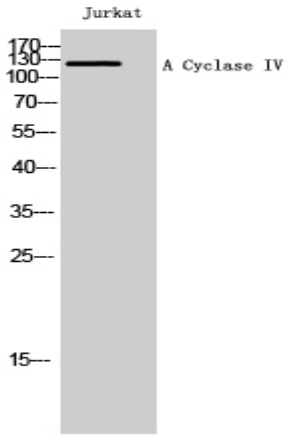
Best Tools for immunology Research

A Cyclase IV Polyclonal Antibody

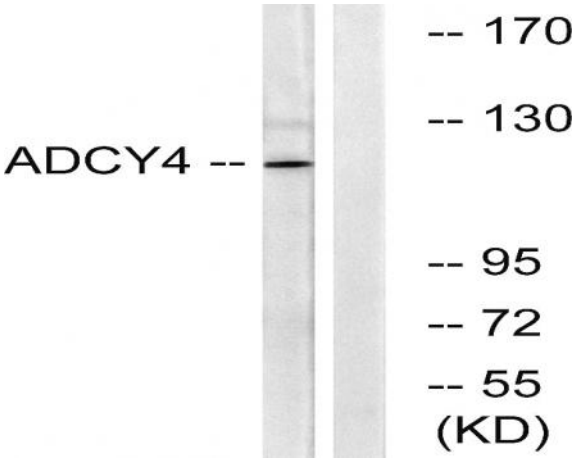
Catalog No :	YT0030
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	A Cyclase IV
Fields :	>>Purine metabolism;>>Metabolic pathways;>>Endocrine resistance;>>Rap1 signaling pathway;>>Calcium signaling pathway;>>cGMP-PKG signaling pathway;>>cAMP signaling pathway;>>Chemokine signaling pathway;>>Phospholipase 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;>>Aldosterone synthesis and secretion;>>Relaxin sig
Gene Name :	ADCY4
Protein Name :	Adenylate cyclase type 4
Human Gene Id :	196883
Human Swiss Prot No :	Q8NFM4
Mouse Gene Id :	104110
Mouse Swiss Prot No :	Q91WF3
Rat Swiss Prot No :	P26770
Immunogen :	The antiserum was produced against synthesized peptide derived from human ADCY4. AA range:195-244

Specificity :	A Cyclase IV Polyclonal Antibody detects endogenous levels of A Cyclase IV protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. 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)
Observed Band :	120kD
Cell Pathway :	Purine metabolism;Calcium;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 family of adenylate cyclases, which are membrane-associated enzymes that catalyze the formation of the secondary messenger cyclic adenosine monophosphate (cAMP). Mouse studies show that adenylate cyclase 4, along with adenylate cyclases 2 and 3, is expressed in olfactory cilia, suggesting that several different adenylate cyclases may couple to olfactory receptors and that there may be multiple receptor-mediated mechanisms for the generation of cAMP signals. Alternative splicing results in transcript variants. [provided by RefSeq, Nov 2010],
Function :	catalytic activity:ATP = 3',5'-cyclic AMP + diphosphate.,cofactor:Binds 2 magnesium ions per subunit.,enzyme regulation:Insensitive to calcium/calmodulin. Stimulated by the G protein beta and gamma subunit complex.,function:This is a membrane-bound, calmodulin-insensitive 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 . Cytoplasm .
Expression :	Detected in the zona glomerulosa and the zona fasciculata in the adrenal gland (at protein level).

Products Images



Western Blot analysis of Jurkat cells using A Cyclase IV Polyclonal Antibody



Western blot analysis of lysates from Jurkat cells, using ADCY4 Antibody. The lane on the right is blocked with the synthesized peptide.