



A Cyclase IV Polyclonal Antibody

Catalog No	YP-Ab-03672
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	ADCY4
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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	A Cyclase IV;ADCY4;Adenylate cyclase type 4;ATP pyrophosphate-lyase 4; Adenylate cyclase type IV;Adenylyl cyclase 4
Observed Band	120kD
Calculated Molecular Weight	120kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Cytoplasm .
Tissue Specificity	Detected in the zona glomerulosa and the zona fasciculata in the adrenal gland (at protein level).
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.,



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],

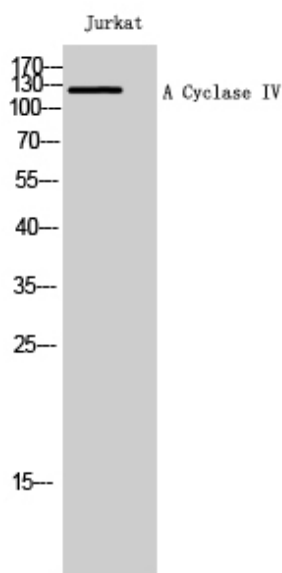
matters needing attention

Avoid repeated freezing and thawing!

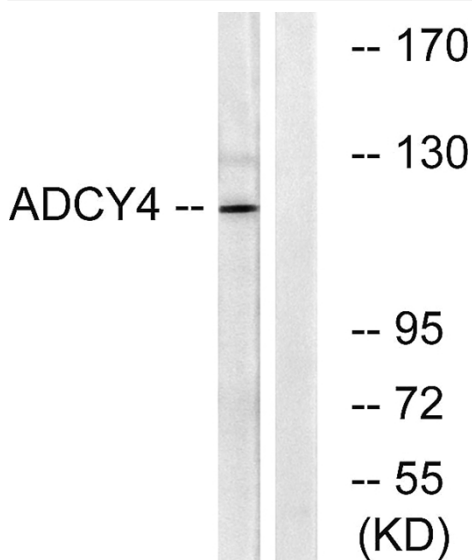
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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.