
Summary

Production Name	A Cyclase IX Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	ADCY9
Alternative Names	ADCY9; KIAA0520; Adenylate cyclase type 9; ATP pyrophosphate-lyase 9; Adenylate cyclase type IX; Adenylyl cyclase 9
Gene ID	115.0
SwissProt ID	O60503.The antiserum was produced against synthesized peptide derived from human ADCY9. AA range:137-186

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000..
Molecular Weight	150kD

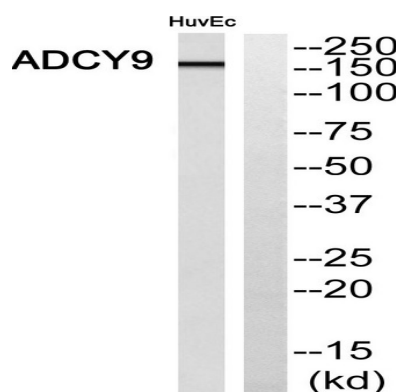
Background

Adenylate cyclase is a membrane bound enzyme that catalyses the formation of cyclic AMP from ATP. It is regulated by a family of G protein-coupled receptors, protein kinases, and calcium. The type 9 adenyl cyclase is a widely distributed adenyl cyclase, and it is stimulated by beta-adrenergic receptor activation but is insensitive to forskolin, calcium, and somatostatin. [provided by RefSeq, Jul 2008],catalytic activity:ATP = 3',5'-cyclic AMP + diphosphate.,cofactor:Binds 2 magnesium ions per subunit.,enzyme regulation:Insensitive to calcium/calmodulin, forskolin and somatostatin. Stimulated by beta-adrenergic receptor activation.,function:May play a fundamental role in situations where fine interplay between intracellular calcium and cAMP determines the cellular function. May be a physiologically relevant docking site for calcineurin.,similarity:Belongs to the adenyl cyclase class-4/guanylyl cyclase family.,similarity:Contains 2 guanylate cyclase domains.,tissue specificity:Expressed in multiple cells of the lung, with expression highest in airway smooth muscle.,

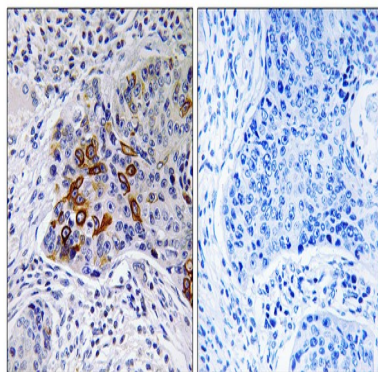
Research Area

Purine metabolism;Calcium;Chemokine;Oocyte meiosis;Vascular smooth muscle contraction;Gap junction;GnRH;Progesterone-mediated oocyte maturation;Melanogenesis;Vibrio cholerae infection;Dilated cardiomyopathy;

Image Data

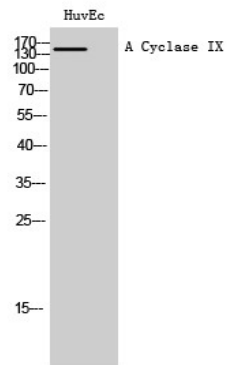


Western blot analysis of ADCY9 Antibody. The lane on the right is blocked with the ADCY9 peptide.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using ADCY9 Antibody. The lane on the right is blocked with the ADCY9 peptide.

Product Name: A Cyclase IX Rabbit Polyclonal Antibody
Catalog #: APRab06354



Western Blot analysis of HuvEc cells using A Cyclase IX Polyclonal Antibody diluted at 1: 1000

Note

For research use only.