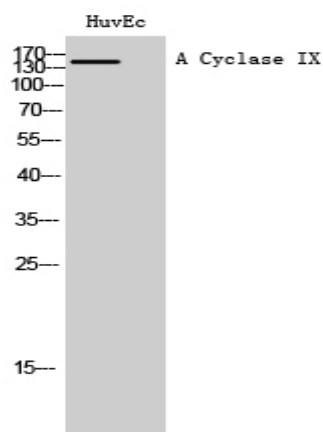


## A Cyclase IX Polyclonal Antibody

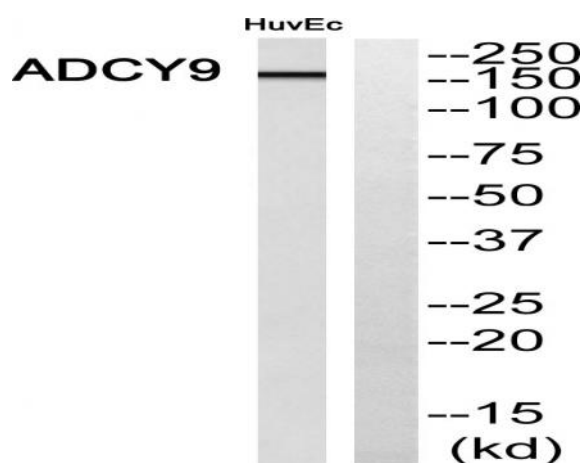
<b>Catalog No :</b>	YT0031
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	A Cyclase IX
<b>Fields :</b>	>>Purine metabolism;>>Metabolic pathways;>>Endocrine resistance;>>Rap1 signaling pathway;>>Calcium signaling pathway;>>cGMP-PKG signaling pathway;>>cAMP signaling 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;>>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 signaling pathway;>>Cort
<b>Gene Name :</b>	ADCY9
<b>Protein Name :</b>	Adenylate cyclase type 9
<b>Human Gene Id :</b>	115
<b>Human Swiss Prot No :</b>	O60503
<b>Mouse Swiss Prot No :</b>	P51830
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human ADCY9. AA range:137-186
<b>Specificity :</b>	A Cyclase IX Polyclonal Antibody detects endogenous levels of A Cyclase IX protein.

<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15 °C to -25 °C/1 year(Do not lower than -25 °C)
<b>Observed Band :</b>	150kD
<b>Cell Pathway :</b>	Purine metabolism;Calcium;Chemokine;Oocyte meiosis;Vascular smooth muscle contraction;Gap junction;GnRH;Progesterone-mediated oocyte maturation;Melanogenesis;Vibrio cholerae infection;Dilated cardiomy
<b>Background :</b>	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 adenylyl cyclase is a widely distributed adenylyl cyclase, and it is stimulated by beta-adrenergic receptor activation but is insensitive to forskolin, calcium, and somatostatin. [provided by RefSeq, Jul 2008],
<b>Function :</b>	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 adenylyl 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.,
<b>Subcellular Location :</b>	Cell membrane ; Multi-pass membrane protein .
<b>Expression :</b>	Detected in skeletal muscle, pancreas, lung, heart, kidney, liver, brain and placenta (PubMed:9628827, PubMed:10987815). Expressed in multiple cells of the lung, with expression highest in airway smooth muscle (PubMed:12972952).

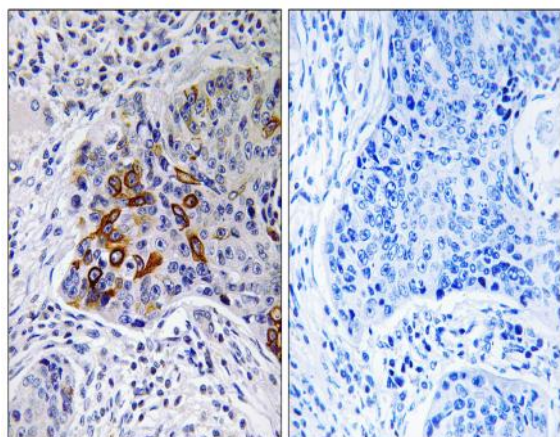
## Products Images



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



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.