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**Product Name: ADCY5/6 Rabbit Polyclonal Antibody****Catalog #: APRab00392**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% sodium azide, pH 7.3.
<b>Purification</b>	Affinity Chromatography

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:1000,IHC 1:50-1:100,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
<b>Molecular Weight</b>	Calculated MW: 139 kDa; Observed MW: 139 kDa

**Antigen Information**

<b>Gene Name</b>	ADCY5/ADCY6 ADCY5; Adenylate cyclase type 5; ATP pyrophosphate-lyase 5; Adenylate cyclase type V;
<b>Alternative Names</b>	Adenylyl cyclase 5; ADCY6; KIAA0422; Adenylate cyclase type 6; ATP pyrophosphate-lyase 6; Adenylate cyclase type VI; Adenylyl cyclase 6; Ca(2+)-inhibitabl
<b>Gene ID</b>	111/112
<b>SwissProt ID</b>	O95622/O43306
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human ADCY5/6. AA range:931-980

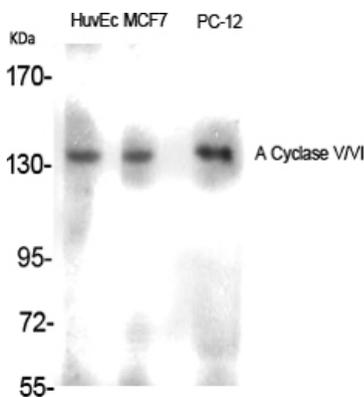
## Background

ADCY5 encodes a member (adenylate cyclase 5) of the membrane-bound adenylyl cyclase enzymes. Adenylyl cyclases mediate G protein-coupled receptor signaling through the synthesis of the second messenger cAMP. Activity of the encoded protein is stimulated by the Gs alpha subunit of G protein-coupled receptors and is inhibited by protein kinase A, calcium and Gi alpha subunits. Single nucleotide polymorphisms in this gene may be associated with low birth weight and type 2 diabetes. Alternatively spliced transcript variants that encode different isoforms have been observed for ADCY5.

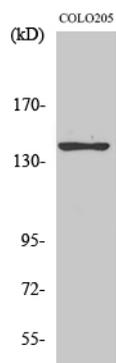
## Research Area

Signal Transduction

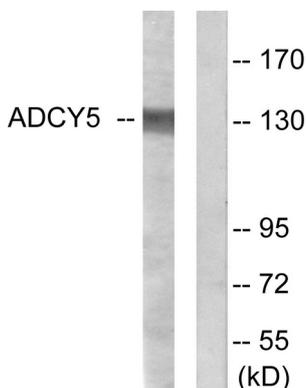
## Image Data



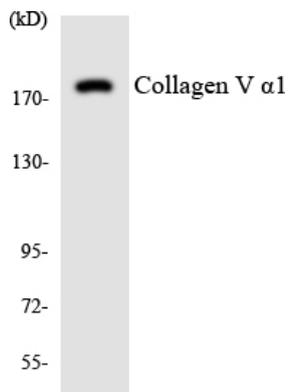
Western blot analysis of ADCY5/6 in various lysates using ADCY5/6 antibody.



Western blot analysis of ADCY5/6 in COLO205 lysates using A Cyclase V/VI antibody.



Western blot analysis of ADCY5/6 in COLO25 lysates using ADCY5/6 antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of ADCY5/6 in HUVEC lysates using ADCY5/6 antibody.