



# A Cyclase V/VI Polyclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-Ab-03674                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Applications</b>                | WB;IHC;IF;ELISA                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Name</b>                   | ADCY5/ADCY6                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from human ADCY5/6. AA range:931-980                                                                                                                                                                                                                                                                                            |
| <b>Specificity</b>                 | A Cyclase V/VI Polyclonal Antibody detects endogenous levels of A Cyclase V/VI 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>Purification</b>                | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                          |
| <b>Dilution</b>                    | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.                                                                                                                                                                                                                                   |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>                    | A Cyclase V/VI;ADCY5/ADCY6;Adenylate cyclase type 5/6;ADCY5;Adenylate cyclase type 5;ATP pyrophosphate-lyase 5;Adenylate cyclase type V;Adenylyl cyclase 5;ADCY6;KIAA0422;Adenylate cyclase type 6;ATP pyrophosphate-lyase 6;Adenylate cyclase type VI;Adenylyl cyclase 6;Ca(2+)-inhibitabl                                                                                                    |
| <b>Observed Band</b>               | 138kD                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Calculated Molecular Weight</b> | 138kD                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Cell Pathway</b>                | Cell membrane ; Multi-pass membrane protein. Cell projection, cilium .                                                                                                                                                                                                                                                                                                                         |
| <b>Tissue Specificity</b>          | Detected in pancreas islets (at protein level). Detected in pancreas islets.                                                                                                                                                                                                                                                                                                                   |
| <b>Function</b>                    | catalytic activity:ATP = 3',5'-cyclic AMP + diphosphate.,cofactor:Binds 2 magnesium ions per subunit.,enzyme regulation:Inhibition by calcium in the submicromolar concentration range.,function:This is a membrane-bound, calcium-inhibitable 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 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 this gene. [provided by RefSeq, Dec 2010],

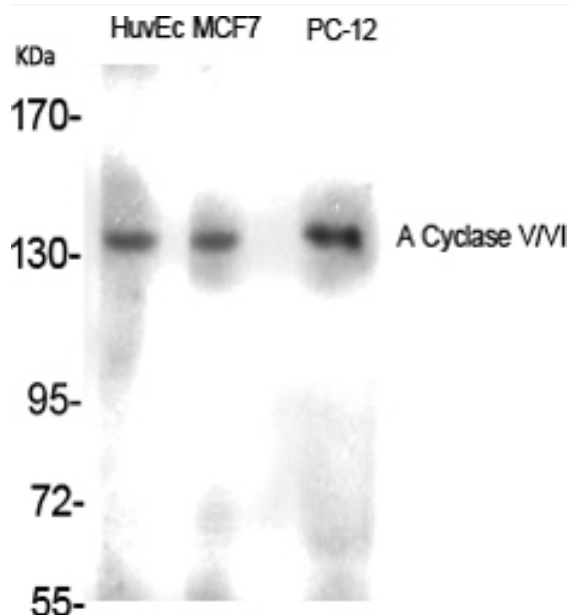
## matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

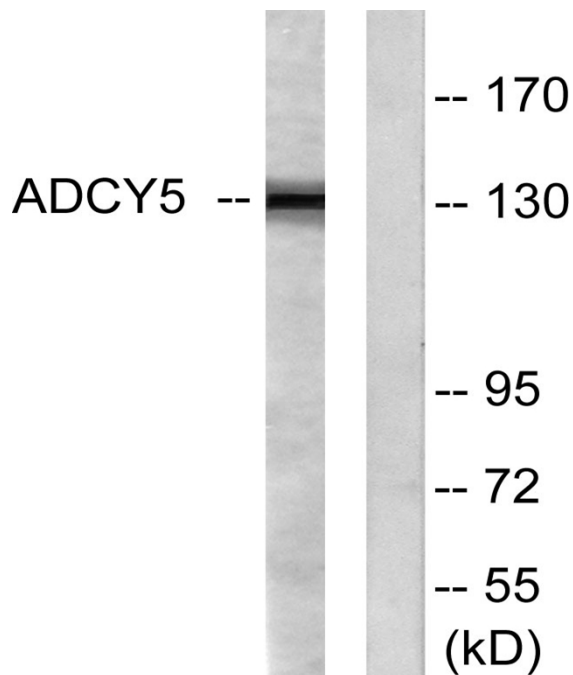
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images

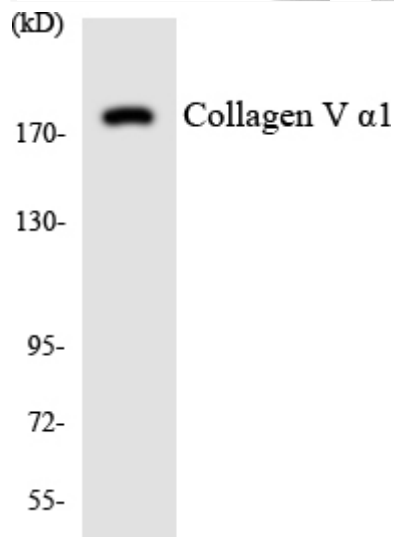


Western Blot analysis of various cells using A Cyclase V/VI Polyclonal Antibody

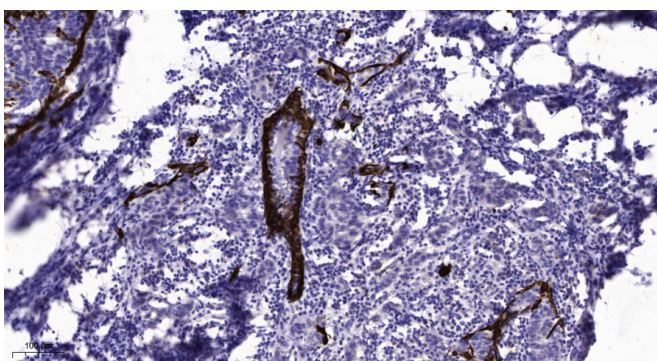
Western Blot analysis of COLO205 cells using A Cyclase V/VI Polyclonal Antibody



Western blot analysis of lysates from COLO205 cells, using ADCY5/6 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HUVEC cells using Collagen V α1 antibody.



Immunohistochemical analysis of paraffin-embedded human Breast cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 45min).