

For Research Use Only

# ADCY3 Polyclonal ANTIBODY



Catalog Number: 19492-1-AP

1 Publications

## Basic Information

Catalog Number:  
19492-1-AP

Size:  
98 µg/150 µl

Source:  
Rabbit

Isotype:  
IgG

Purification Method:  
Antigen affinity purification

Immunogen Catalog Number:

GenBank Accession Number:  
NM\_004036

GeneID (NCBI):  
109

Full Name:  
adenylate cyclase 3

Calculated MW:  
129 kDa

Observed MW:  
170-180 kDa

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 µg for IP and 1:500-1:1000 for WB

IHC 1:20-1:200

IF 1:50-1:500

## Applications

Tested Applications:

IF, IHC, IP, WB, ELISA

Cited Applications:

IHC

Species Specificity:

human,mouse,rat

Cited Species:

mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : mouse skeletal muscle tissue; human brain tissue

IP : MDCK cells;

IHC : human kidney tissue; human heart tissue

IF : MDCK cells;

## Background Information

ADCY3 is an adenylyl cyclase (AC) functioning to convert ATP to cAMP in response to signals initiated by activation of Gs-coupled receptors. To date, 10 isoforms of AC have been cloned in mammals. Initially identified in olfactory cilia, ADCY3 is regarded as the olfactory isoform and required for detection of odorants. Recently it has been found that outside of the olfactory epithelium the olfactory-like signaling pathway including AC3 may also have a key role in spermatogenesis and spermatozoa functions. In addition, the ciliary location of AC3 makes it as a prominent marker for primary cilia in brain. AC3 is typically found at 130 kDa in olfactory tissues. In nonolfactory tissues (such as sperm), this protein is reported to migrate with a molecular mass of 55 kDa, occasionally accompanied by additional bands at either 90 or 130 kDa (PMD:9539154).

## Notable Publications

Author	Pubmed ID	Journal	Application
Shih-Pin Lee	29339497	Acta Physiol (Oxf)	IHC

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

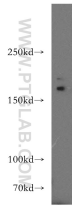
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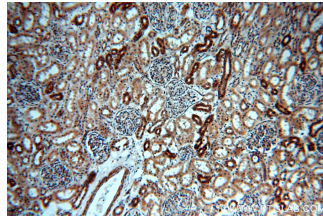
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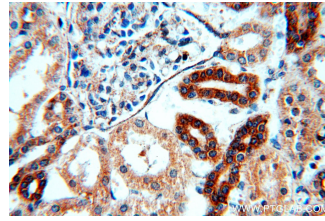
Selected Validation Data



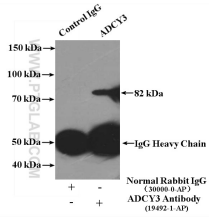
mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 19492-1-AP(ADCY3 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours



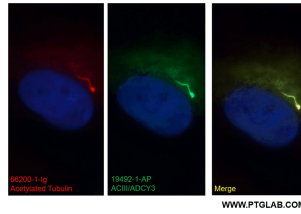
Immunohistochemical analysis of paraffin-embedded human kidney using 19492-1-AP(ADCY3 antibody) at dilution of 1:100 (under 10x lens)



Immunohistochemical analysis of paraffin-embedded human kidney using 19492-1-AP(ADCY3 antibody) at dilution of 1:100 (under 40x lens)



IP Result of anti-ADCY3 (IP:19492-1-AP, 4ug; Detection:19492-1-AP 1:500) with MDCK cells lysate 3500ug.



Immunofluorescent analysis of (4% PFA) fixed MDCK cells using 19492-1-AP (ADCY3 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)

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