

A Cyclase VIII Rabbit pAb

CatalogNo: YT0035

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- IHC, IF, ELISA

MW

- 140kD (Calculated)

Isotype

- IgG

| Recommended Dilution Ratios

IHC 1:100-1:300

IF 1:200-1:1000

ELISA 1:40000

Not yet tested in other applications.

| Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality Polyclonal

| Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human ADCY8. AA range: 591-640

Specificity A Cyclase VIII Polyclonal Antibody detects endogenous levels of A Cyclase VIII protein.

| Target Information

Gene name ADCY8

Protein Name Adenylate cyclase type 8

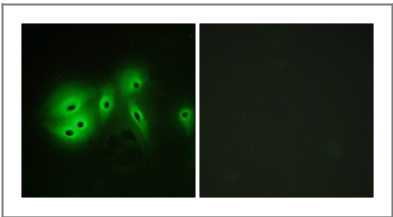
| Organism | Gene ID | UniProt ID |
|----------|-------------------------|--------------------------|
| Human | 114 ; | P40145 ; |
| Mouse | 11514 ; | P97490 ; |
| Rat | 29241 ; | P40146 ; |

Cellular Localization Cell membrane ; Multi-pass membrane protein . Basolateral cell membrane . Apical cell membrane . Cell junction, synapse . Cell projection, dendrite . Cell projection, axon . Cell junction, synapse, presynaptic cell membrane . Cell junction, synapse, postsynaptic density . Membrane raft . Membrane, coated pit . Cytoplasmic vesicle, clathrin-coated vesicle membrane . Membrane, caveola . Localized to dendritic arbors (By similarity). Monomeric N-glycosylated species localizes in membrane raft. In contrast, monomeric unglycosylated forms are enriched in clathrin-coated pits and vesicles. Dimers are also localized outside of membrane rafts. Membrane raft localization and integrity is indispensable for CCE-stimulated adenylate cyclase activity (By similarity). .

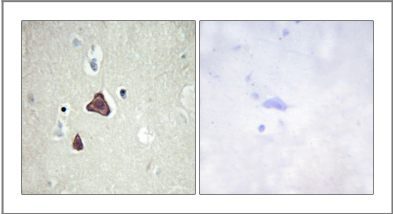
Tissue specificity Detected in brain cortex (PubMed:1715695). Expressed in islet (PubMed:25403481).

Function Catalytic activity:ATP = 3',5'-cyclic AMP + diphosphate.,cofactor:binds 2 magnesium ions per subunit.,enzyme regulation:Activated by calcium/calmodulin.,Function:This is a membrane-bound, calcium-stimulable adenylyl cyclase. May be involved in learning, in memory and in drug dependence.,similarity:Belongs to the adenylyl cyclase class-4/guanylyl cyclase family.,similarity:Contains 2 guanylate cyclase domains.,

Validation Data



Immunofluorescence analysis of A549 cells, using ADCY8 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using ADCY8 Antibody. The picture on the right is blocked with the synthesized peptide.

Contact information

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**A Cyclase VIII
Rabbit pAb**

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