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A Cyclase I Polyclonal Antibody

Catalog # AP68212

Product Information

Application	WB, IHC-P
Primary Accession	Q08828
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	123440

Additional Information

Gene ID	107
Other Names	ADCY1; Adenylate cyclase type 1; ATP pyrophosphate-lyase 1; Adenylate cyclase type I; Adenylyl cyclase 1; Ca(2+)/calmodulin-activated adenylyl cyclase
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

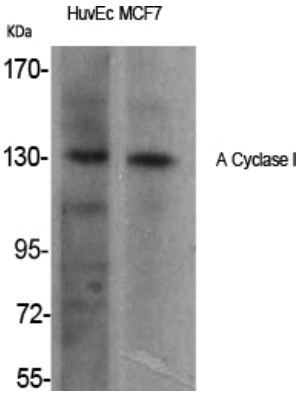
Name	ADCY1
Function	Catalyzes the formation of the signaling molecule cAMP in response to G-protein signaling. Mediates responses to increased cellular Ca(2+)/calmodulin levels (By similarity). May be involved in regulatory processes in the central nervous system. May play a role in memory and learning. Plays a role in the regulation of the circadian rhythm of daytime contrast sensitivity probably by modulating the rhythmic synthesis of cyclic AMP in the retina (By similarity).
Cellular Location	Membrane {ECO:0000250|UniProtKB:P19754}; Multi- pass membrane protein {ECO:0000250|UniProtKB:P19754}. Cell membrane; Multi-pass membrane protein. Cytoplasm {ECO:0000250|UniProtKB:O88444}. Membrane raft {ECO:0000250|UniProtKB:P19754}. Note=Expressed in the cytoplasm of supporting cells and hair cells of the cochlea vestibule, as well as to the cochlear hair cell nuclei and stereocilia {ECO:0000250|UniProtKB:O88444}
Tissue Location	Detected in zona glomerulosa and zona fasciculata in the adrenal gland (at

protein level) (PubMed:11549699). Brain, retina and adrenal medulla.

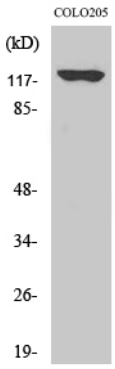
Background

Catalyzes the formation of the signaling molecule cAMP in response to G-protein signaling. Mediates responses to increased cellular Ca(2+)/calmodulin levels (By similarity). May be involved in regulatory processes in the central nervous system. May play a role in memory and learning. Plays a role in the regulation of the circadian rhythm of daytime contrast sensitivity probably by modulating the rhythmic synthesis of cyclic AMP in the retina (By similarity).

Images



Western Blot analysis of various cells using A Cyclase I Polyclonal Antibody



Western Blot analysis of COLO205 cells using A Cyclase I Polyclonal Antibody