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Datasheet for ABIN7111340 **anti-ADCY6 antibody**

Overview

Quantity:	100 µg
Target:	ADCY6
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADCY6 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

Product Details

Immunogen:	adenylate cyclase 6
Isotype:	IgG
Purification:	Immunogen affinity purified
Purity:	≥95 % as determined by SDS-PAGE

Target Details

Target:	ADCY6
Alternative Name:	ADCY6 (ADCY6 Products)
Background:	<p>Synonyms:AC6, ADCY6, adenylyl cyclase 6, Adenylyl cyclase type 6, Adenylyl cyclase type VI, Adenylyl cyclase 6, ATP pyrophosphate lyase 6, DKFZp779F075, KIAA0422</p> <p>Background:Catalyzes the formation of the signaling molecule cAMP downstream of G protein-coupled receptors(PubMed:17916776, PubMed:17110384). Functions in signaling cascades</p>

Target Details

downstream of beta-adrenergic receptors in the heart and in vascular smooth muscle cells(PubMed:17916776). Functions in signaling cascades downstream of the vasopressin receptor in the kidney and has a role in renal water reabsorption. Functions in signaling cascades downstream of PTH1R and plays a role in regulating renal phosphate excretion. Functions in signaling cascades downstream of the VIP and SCT receptors in pancreas and contributes to the regulation of pancreatic amylase and fluid secretion(By similarity). Signaling mediates cAMP-dependent activation of protein kinase PKA. This promotes increased phosphorylation of various proteins, including AKT. Plays a role in regulating cardiac sarcoplasmic reticulum Ca(2+) uptake and storage, and is required for normal heart ventricular contractibility. May contribute to normal heart function(By similarity). Mediates vasodilatation after activation of beta-adrenergic receptors by isoproterenol(PubMed:17916776). Contributes to bone cell responses to mechanical stimuli(By similarity).

Molecular Weight: 131 kDa

Gene ID: 112

UniProt: [O43306](#)

Pathways: [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Thyroid Hormone Synthesis](#), [cAMP Metabolic Process](#), [Myometrial Relaxation and Contraction](#), [G-protein mediated Events](#), [Interaction of EGFR with phospholipase C-gamma](#)

Application Details

Application Notes: WB: 1:200-1:2000, IP: 1:200-1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Handling

Expiry Date: 12 months