

## Recombinant Human ADCY8 293 Cell Lysate

**Cat. No.** ADCY8-9020HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>         | Antigen standard for adenylate cyclase 8 (brain) (ADCY8) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.                                                                                                                |
| <b>Components</b>          | This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol). |
| <b>Size</b>                | 0.1 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Instruction</b> | Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.                                                                                                                                                                                                                                                                   |

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**Applications** ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

**Gene Name** [ADCY8 adenylate cyclase 8 \(brain\) \[ Homo sapiens \]](#)

**Official Symbol** ADCY8

**Synonyms** ADCY8; adenylate cyclase 8 (brain); ADCY3; adenylate cyclase type 8; AC8; HBAC1; adenylyl cyclase 8; ATP pyrophosphate-lyase 8; adenylyl cyclase-8, brain; adenylate cyclase type VIII; ca(2+)/calmodulin-activated adenylyl cyclase;

**Gene ID** [114](#)

**mRNA Refseq** [NM\\_001115](#)

**Protein Refseq** [NP\\_001106](#)

**MIM** [103070](#)

**UniProt ID** [P40145](#)

**Chromosome Location** 8q24

**Pathway** Activation of GABAB receptors, organism-specific biosystem; Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Adenylate cyclase activating pathway, organism-specific biosystem; Adenylate cyclase inhibitory pathway, organism-specific biosystem; Aquaporin-

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mediated transport, organism-specific biosystem; Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem;

**Function**

ATP binding; GTPase activity; adenylate cyclase activity; calcium- and calmodulin-responsive adenylate cyclase activity; metal ion binding; nucleotide binding;

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