

## Human Adenylate Cyclase Type 2 (ADCY2) ELISA Kit | ADCY2 elisa kit

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CATALOG #  
**AAA331118**

REACTIVITY  
**Human**

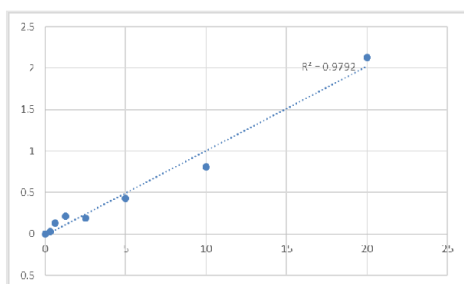
### PRODUCT SYNONYMS

Adenylate Cyclase Type 2 (ADCY2); Human Adenylate Cyclase Type 2 (ADCY2) ELISA Kit; ADCY2; AC2; FLJ16822; FLJ45092; HBAC2; KIAA1060; MGC133314; 3; 5-cyclic AMP synthetase; ATP pyrophosphate-lyase; adenylate cyclase 2; adenylate cyclase; adenylyl cyclase 2; type adenylate cyclase; ADCY2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | Human Adenylate cyclase type 2 (ADCY2) ELISA Kit has high sensitivity and excellent specificity for detection of Human ADCY2. No significant cross-reactivity or interference between Human ADCY2 and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sequence Length         | 1091                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Assay Type              | Sandwich ELISA (Quantitative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples                 | Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Method        | Colorimetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage Notes             | <ul style="list-style-type: none"> <li>* Do not mix components from different kit lots or use reagents beyond the kit expiration date.</li> <li>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.</li> <li>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.</li> <li>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.</li> <li>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.</li> <li>* It is recommended that all samples and standards be assayed in duplicate or triplicate.</li> </ul> |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### IMAGES



**Standard Curve (Sample)**

Fig.1. Human Adenylate cyclase type 2 (ADCY2) Standard Curve.

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for ADCY2 elisa kit | <p>Description: This Human Adenylate cyclase type 2 (ADCY2) ELISA Kit employs a two-site sandwich ELISA to quantitate ADCY2 in samples. An antibody specific for ADCY2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ADCY2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ADCY2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ADCY2 bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> <p>Background: Adenylate cyclase type 2 is a member of the family of adenylate cyclases, which are membrane-associated enzymes that catalyze the formation of the secondary messenger cyclic adenosine monophosphate (cAMP). This enzyme is insensitive to Ca(2+)/calmodulin, and is stimulated by the G protein beta and gamma subunit complex. The amino acid sequence of ADCY2 displayed significant homology with ADCY8 in the highly conserved adenylyl cyclase domain (250 amino acids) found in the 3-prime cytoplasmic portion of all mammalian adenylyl cyclases. However, outside this domain, the homology was extremely low.Semiquantitative RT-PCR detected ADCY2 in all tissues examined except peripheral blood leukocytes. Highest expression was detected in brain, skeletal muscle, and testis.</p> |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|--------------------------|
| NCBI GI #                        | 115387102                |
| NCBI GeneID                      | 108                      |
| NCBI Accession #                 | NP_065433.2              |
| NCBI GenBank Nucleotide #        | NP_065433.2              |
| UniProt Accession #              | Q08462                   |
| NCBI Official Full Name          | adenylate cyclase type 2 |
| NCBI Official Synonym Full Names | adenylate cyclase 2      |
| NCBI Official Symbol             | ADCY2                    |
| NCBI Official Synonym Symbols    | AC2; HBAC2               |
| NCBI Protein Information         | adenylate cyclase type 2 |
| UniProt Protein Name             | Adenylate cyclase type 2 |
| UniProt Gene Name                | ADCY2                    |
| UniProt Synonym Gene Names       | KIAA1060                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/adenylate-cyclase-type-2-adcy2/331118>