# ADD1/ADD2 (Human) Cell-Based ELISA Kit

Catalog # KA2559 Size 1 Kit

## Specification

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|---|---|
| **Product Description** | ADD1/ADD2 (Human) Cell-Based ELISA Kit is an indirect enzyme-linked immunoassay for qualitative determination of ADD1/ADD2 expression in cultured cells. |
| **Suitable Sample** | Attached Cell, Loosely Attached Cell, Suspension Cell |
| **Label** | HRP-conjugated |
| **Detection Method** | Colorimetric |
| **Assay Type** | Qualitative |
| **Reactivity** | Human, Mouse, Rat |
| **Regulation Status** | For research use only (RUO) |
| **Storage Instruction** | Store the kit at 4°C. |

## Applications

- Qualitative

## Gene Info — ADD1

| | |
|---|---|
| **Entrez GeneID** | 118 |
| **Protein Accession#** | P35611 (Gene ID : 118);P35612(Gene ID : 119) |
| **Gene Name** | ADD1 |
| **Gene Alias** | ADDA, MGC3339, MGC44427 |
| **Gene Description** | adducin 1 (alpha) |

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| | |
|---|---|
| **Omim ID** | 102680 145500 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | Adducins are a family of cytoskeleton proteins encoded by three genes (alpha, beta, gamma). Ad ducin is a heterodimeric protein that consists of related subunits, which are produced from distinct genes but share a similar structure. Alpha- and beta-adducin include a protease-resistant N-termi nal region and a protease-sensitive, hydrophilic C-terminal region. Alpha- and gamma-adducins a re ubiquitously expressed. In contrast, beta-adducin is expressed at high levels in brain and hema topoietic tissues. Adducin binds with high affinity to Ca(2+)/calmodulin and is a substrate for prote in kinases A and C. Alternative splicing results in multiple variants encoding distinct isoforms; how ever, not all variants have been fully described. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000151164\|OTTHUMP00000151165\|erythrocyte adducin alpha subunit |

## Gene Info — ADD2

| | |
|---|---|
| **Entrez GeneID** | 119 |
| **Protein Accession#** | P35611 (Gene ID : 118);P35612(Gene ID : 119) |
| **Gene Name** | ADD2 |
| **Gene Alias** | ADDB |
| **Gene Description** | adducin 2 (beta) |
| **Omim ID** | 102681 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | Adducins are heteromeric proteins composed of different subunits referred to as adducin alpha, b eta and gamma. The three subunits are encoded by distinct genes and belong to a family of mem brane skeletal proteins involved in the assembly of spectrin-actin network in erythrocytes and at sit es of cell-cell contact in epithelial tissues. While adducins alpha and gamma are ubiquitously expr essed, the expression of adducin beta is restricted to brain and hematopoietic tissues. Adducin, originally purified from human erythrocytes, was found to be a heterodimer of adducins alpha and beta. Polymorphisms resulting in amino acid substitutions in these two subunits have been associ ated with the regulation of blood pressure in an animal model of hypertension. Heterodimers cons isting of alpha and gamma subunits have also been described. Structurally, each subunit is compr ised of two distinct domains. The amino-terminal region is protease resistant and globular in shap e, while the carboxy-terminal region is protease sensitive. The latter contains multiple phosphoryla tion sites for protein kinase C, the binding site for calmodulin, and is required for association with spectrin and actin. Various adducin beta mRNAs, alternatively spliced at 3'end and/or internally s pliced and encoding different isoforms, have been described. The functions of all the different isof orms are not known. [provided by RefSeq |
| **Other Designations** | Adducin-2 (beta)\|adducin 2\|beta adducin |

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## Disease

- Albuminuria
- Alcoholism
- Amyotrophic lateral sclerosis
- Anemia
- Arterial Occlusive Diseases
- Arteriosclerosis
- Atherosclerosis
- Brain Ischemia
- Cardiovascular Diseases
- Cardiovascular Diseases
- Carotid Artery Diseases
- Cerebral Hemorrhage
- Cerebral Palsy
- Cerebrovascular Accident
- Cerebrovascular Disorders
- Cognition Disorders
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Coronary Stenosis
- Diabetes Mellitus
- Diabetes Mellitus
- Diabetic Angiopathies

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- Diabetic Nephropathies

- Diabetic Nephropathies
- Disease Progression
- Edema
- Edema
- Emergencies
- Endolymphatic Hydrops
- Endolymphatic Hydrops
- Gastroschisis
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Glomerulonephritis
- Glomerulonephritis
- Heart Defects
- Hyperaldosteronism
- Hyperlipidemia
- Hyperlipoproteinemia Type II
- Hypertension
- Hypertension
- Hypertrophy
- Hypotension
- Infant
- Inflammation
- Kidney Diseases
- Kidney Failure

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- Meniere Disease

- Meniere Disease
- Meningococcal Infections
- Migraine Disorders
- Myocardial Infarction
- Myocardial Ischemia
- Neuropsychological Tests
- Obesity
- Osteoporosis
- Overweight
- Peripheral Vascular Diseases
- Polycystic Kidney
- Polycystic kidney disease
- Pre-Eclampsia
- Premature Birth
- Proteinuria
- Proteinuria
- Recurrence
- Stroke
- Tobacco Use Disorder
- Vascular Diseases
- Werner syndrome

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