CASP1 (Human) Cell-Based ELISA Kit

Catalog # KA2634 Size 1 Kit

Specification

Product Description	CASP1 (Human) Cell-Based ELISA Kit is an indirect enzyme-linked immunoassay for qualitative det ermination of CASP1 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 — CASP1

Entrez GeneID	834
Protein Accession#	P29466
Gene Name	CASP1
Gene Alias	ICE, IL1BC, P45
Gene Description	caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)

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Omim ID	147678
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein which is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apopto sis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved a spartic residues to produce 2 subunits, large and small, that dimerize to form the active enzyme. T his gene was identified by its ability to proteolytically cleave and activate the inactive precursor of interleukin-1, a cytokine involved in the processes such as inflammation, septic shock, and wound healing. This gene has been shown to induce cell apoptosis and may function in various develop mental stages. Studies of a similar gene in mouse suggest a role in the pathogenesis of Huntingt on disease. Alternative splicing of this gene results in five transcript variants encoding distinct isof orms. [provided by RefSeq
Other Designations	CASP1 nirs variant 1|IL1B-convertase|caspase 1|caspase 1, apoptosis-related cysteine proteas e (interleukin 1, beta, convertase)|interleukin 1-B converting enzyme|interleukin 1-beta convertase

Pathway

- Amyotrophic lateral sclerosis (ALS)

Disease

- Adenocarcinoma
- Alzheimer Disease
- Asthma
- Bronchiolitis
- Cardiovascular Diseases
- Cognition
- Coronary Artery Disease
- Diabetes Mellitus
- Disease Susceptibility
- Edema
- Gastrointestinal Stromal Tumors
- Genetic Predisposition to Disease

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- Hematologic Diseases
- Hodgkin Disease
- Infant
- Inflammation
- Leukemia
- Lymphoma
- Lymphoproliferative Disorders
- Memory
- Myocardial Infarction
- Neovascularization
- Neuropsychological Tests
- Occupational Diseases
- Paratyphoid Fever
- Prostatic Neoplasms
- Respiratory Syncytial Virus Infections
- Typhoid Fever
- Waldenstrom Macroglobulinemia
- Werner syndrome

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