

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 determination of CASP1 expression in cultured cells.
Suitable Sample	Attached Cell, Loosely Attached Cell, Suspension Cell
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Qualitative
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)
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 apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce 2 subunits, large and small, that dimerize to form the active enzyme. This 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 developmental stages. Studies of a similar gene in mouse suggest a role in the pathogenesis of Huntington disease. Alternative splicing of this gene results in five transcript variants encoding distinct isoforms. [provided by RefSeq]

Other Designations

CASP1 nirs variant 1|IL1B-convertase|caspase 1|caspase 1, apoptosis-related cysteine protease (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](#)
- [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](#)