CASP3 (Human) Cell-Based ELISA Kit

Catalog # KA2637 Size 1 Kit

Specification

Product Description	CASP3 (Human) Cell-Based ELISA Kit is an indirect enzyme-linked immunoassay for qualitative det ermination of CASP3 expression in cultured cells.
Suitable Sample	Attached Cell, Loosely Attached Cell, Suspension Cell
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Qualitative
Calibration Range	> 5000 cells/well
Reactivity	Human, Mouse, Rat
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C.

Applications

- Qualitative

Gene Info — CASP3

Entrez GeneID	836
Protein Accession#	P42574
Gene Name	CASP3
Gene Alias	CPP32, CPP32B, SCA-1

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Gene Description	caspase 3, apoptosis-related cysteine peptidase
Omim ID	600636
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 two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 6, 7 and 9, and the protein itself is processed by caspases 8, 9 and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease. Alternative splicing of this gene results in two transcript variants that encode the same protein. [provided by RefSeq
Other Designations	OTTHUMP00000165054|PARP cleavage protease|SREBP cleavage activity 1|Yama|apopain|caspase 3|caspase 3, apoptosis-related cysteine protease|cysteine protease CPP32|procaspase3

Publication Reference

- A pilot study on the effect of lactoferrin on Alzheimer's disease pathological sequelae: Impact of the p-Akt/PTEN pathway.

  Mohamed WA, Salama RM, Schaalan MF.

  Biomedicine & Pharmacotherapy 2019 Mar; 111:714.

  Application: Func, Human, Serum

Pathway

- Amyotrophic lateral sclerosis (ALS)
- Apoptosis
- Colorectal cancer
- Epithelial cell signaling in Helicobacter pylori infection
- MAPK signaling pathway
- Natural killer cell mediated cytotoxicity
- p53 signaling pathway
- Pathways in cancer

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Disease

- Adenocarcinoma
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Carcinoma
- Cardiovascular Diseases
- Clubfoot
- Colorectal Neoplasms
- Diabetes Mellitus
- Diabetic Nephropathies
- Disease Progression
- Edema
- Endometrial Neoplasms
- Esophageal Neoplasms
- Gastrointestinal Stromal Tumors
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Hematologic Diseases
- Hodgkin Disease
- Kidney Failure
- Leukemia
- Lung carcinoma
- Lung Neoplasms
- Lymphatic Metastasis
- Lymphoma
- Lymphoproliferative Disorders

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- Mucocutaneous Lymph Node Syndrome
- Multiple Myeloma
- Multiple Sclerosis
- NARP
- Neoplasm Metastasis
- Neoplasms
- Neovascularization
- Occupational Diseases
- Prostatic Neoplasms
- Pulmonary Disease
- Small Cell Lung Carcinoma
- Stomach Neoplasms
- Urinary Bladder Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome

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