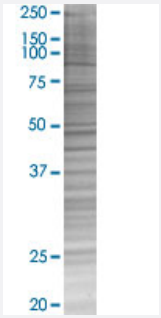
CASP1 293T Cell Transient Overexpression Lysate(Denatured)

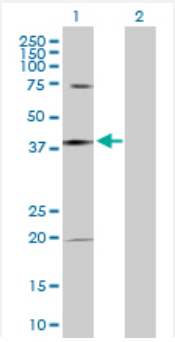
Catalog # H00000834-T02 Size 100 uL

Applications



SDS-PAGE Gel

CASP1 transfected lysate.



Western Blot

Lane 1: CASP1 transfected lysate (35.00 KDa)
Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-CASP1 full-length
Host	Human
Theoretical MW (kDa)	35
Interspecies Antigen Sequence	Mouse (66)

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Quality Control Testing	Transient overexpression cell lysate was tested with Anti-CASP1 antibody (H00000834-D01P) by Western Blots. SDS-PAGE Gel CASP1 transfected lysate. Western Blot Lane 1: CASP1 transfected lysate (35.00 KDa) Lane 2: Non-transfected lysate.
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — CASP1

Entrez GeneID	834
GeneBank Accession#	NM_033293
Protein Accession#	NP_150635.1
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

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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

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- 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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