

Recombinant Human CASP2, GST-tagged

Cat. No. CASP2-10731H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human CASP2 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength 1-200a.a.

Description

This gene encodes a member of the carcinoembryonic antigen (CEA) gene family, which belongs to the immunoglobulin superfamily. Two subgroups of the CEA family, the CEA cell adhesion molecules and the pregnancy-specific glycoproteins, are located within a 1.2 Mb cluster on the long arm of chromosome 19. Eleven pseudogenes of the CEA cell adhesion molecule subgroup are also found in the cluster. The encoded protein was originally described in bile ducts of liver as biliary glycoprotein. Subsequently, it was found to be a cell-cell adhesion molecule detected on leukocytes, epithelia, and endothelia. The encoded protein mediates cell adhesion via homophilic as well as heterophilic binding to other proteins of the subgroup. Multiple cellular activities have been attributed to the encoded protein, including roles in the differentiation and arrangement of tissue three-dimensional structure, angiogenesis, apoptosis, tumor suppression, metastasis, and the modulation of innate and adaptive immune responses. Multiple transcript variants encoding different isoforms have been reported, but the full-length nature of all variants has not been defined.

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Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.
GENE INFORMATION	
Gene Name	CASP2 caspase 2, apoptosis-related cysteine peptidase [Homo sapiens]
Official Symbol	CASP2
Synonyms	CASP2; caspase 2, apoptosis-related cysteine peptidase; NEDD2, neural precursor cell expressed, developmentally down regulated 2; caspase-2; ICH1; PPP1R57; protein phosphatase 1; regulatory subunit 57; protease ICH-1; protein phosphatase 1, regulatory subunit 57; neural precursor cell expressed developmentally down-regulated protein 2; NEDD2; CASP-2; NEDD-2;
Gene ID	835
mRNA Refseq	NM_001224
Protein Refseq	NP_001215
MIM	600639
UniProt ID	P42575
Chromosome Location	7q34-q35

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Pathway

Apoptosis, organism-specific biosystem; Apoptosis Modulation by HSP70, organism-specific biosystem; Caspase cascade in apoptosis, organism-specific biosystem; Cell death signalling via NRAGE, NRIF and NADE, organism-specific biosystem; HIV-1 Nef: Negative effector of Fas and TNF-alpha, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem;

Function

cysteine-type endopeptidase activity; enzyme binding; peptidase activity; protein binding; protein domain specific binding;

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