Caspase 2 (CASPASE-2) ELISA Kit for Sheep

PRODUCT OVERVIEW

Product Name	Caspase 2 (CASPASE-2), ELISA Kit
Full Product Name	Sheep Caspase 2 ELISA Kit
Product Gene Name	CASPASE-2 elisa kit
Species Reactivity	Sheep
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	50,661 Da
Chromosome Location	Chromosome: 6; NC_000072.6 (42265039..42282496). Location: 6 B2.1; 6 20.54 cM
3D Structure	ModBase 3D Structure for P29594
Related Product Information for CASPASE-2 elisa kit	MBS040326 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Caspase 2 (CASPASE-2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CASPASE-2. The ELISA analytical biochemical technique of the MBS040326 kit is based on CASPASE-2 antibody-CASPASE-2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CASPASE-2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CASPASE-2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of CASPASE-2 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CASPASE-2. It may not necessarily be applicable to this product.

NCBI GI #	6680848
NCBI GeneID	12366
NCBI Accession #	NP_031636.1
UniProt Primary Accession #	P29594
UniProt Secondary Accession #	O08737; Q3TCM0; Q8C9H7; Q8K241
UniProt Related Accession #	P29594
GenBank Nucleotide #	NM_007610.1
NCBI Official Full Name	caspase-2
NCBI Official Synonym Full Names	caspase 2
NCBI Official Symbol	Casp2
NCBI Official Synonym Symbols	ICH-1; Nedd2; Caspase-2
UniProt Protein Name	Caspase-2
UniProt Synonym Protein Names	Neural precursor cell expressed developmentally down-regulated protein 2; NEDD-2; Protease ICH-1

Protein Family	Caspase
UniProt Gene Name	Casp2
UniProt Synonym Gene Names	Ich1; Nedd-2; Nedd2; CASP-2; NEDD-2
UniProt Entry Name	CASP2_MOUSE
NCBI Protein Information	caspase-2; CASP-2; NEDD-2; protease ICH-1; neural precursor cell expressed developmentally down-regulated protein 2
NCBI Summary for CASPASE-2	This gene encodes the evolutionarily ancient and most conserved member of the cysteine proteases that plays important role in stress-induced apoptosis, DNA repair and tumor suppression. Mice lacking the encoded protein develop normally but display cell type-specific apoptotic defects. Germ cells and oocytes from such mice were found to be resistant to cell death after treatment with chemotherapeutic drugs. [provided by RefSeq, Apr 2015]
UniProt Comments for CASPASE-2	CASP2: Involved in the activation cascade of caspases responsible for apoptosis execution. Might function by either activating some proteins required for cell death or inactivating proteins necessary for cell survival. Heterotetramer that consists of two anti-parallel arranged heterodimers, each one formed by a p18 subunit and a p12 subunit. Interacts with LRDD. Expressed at higher levels in the embryonic lung, liver and kidney than in the heart and brain. In adults, higher level expression is seen in the placenta, lung, kidney, and pancreas than in the heart, brain, liver and skeletal muscle. Belongs to the peptidase C14A family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Protease; Apoptosis; EC 3.4.22.55 Cellular Component: mitochondrion; membrane; cytoplasm; intracellular; nucleus Molecular Function: peptidase activity; protein domain specific binding; protein binding; hydrolase activity; cysteine-type endopeptidase activity; cysteine-type peptidase activity Biological Process: regulation of apoptosis; caspase activation; DNA damage response, signal transduction resulting in induction of apoptosis; apoptosis; positive regulation of apoptosis; positive regulation of neuron apoptosis; germ cell programmed cell death; protein processing; proteolysis; DNA damage response, signal transduction by p53 class mediator resulting in cell cycle arrest; negative regulation of apoptosis
Research Articles on CASPASE-2	**1.** The findings suggest that loss of caspase-2 serves as a key function in maintaining genomic integrity, during cell proliferation and following DNA damage.
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