

Caspase 4 (CASP4) Recombinant Protein | CASP4 recombinant protein

Recombinant Caspase 4 (CASP4)

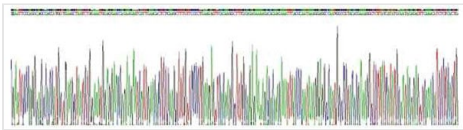
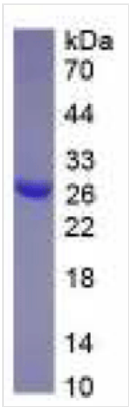
CATALOG # AAA134279	HOST E.coli	REACTIVITY Mus musculus (Mouse)	APPLICATIONS Western Blot, SDS-Page
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PRODUCT SYNONYMS

Caspase 4 (CASP4); Recombinant Caspase 4 (CASP4); CASP4 recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Reactivity	Mus musculus (Mouse)
Purity/Purification	> 90%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% skl, 5%Trehalose.
Concentration	Original Concentration: 200ug/mL (varies by lot)
Applicable Applications for CASP4 recombinant protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Prokaryotic expression
Residues	Pro81~Glu266
Tags	N-terminal His Tag
Subcellular Location	Mitochondrion, Cytoplasm
Traits	Freeze-dried powder
Predicted isoelectric point	5.6
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1.Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in ddH2O to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



Gene Sequence
Gene Sequencing (extract)

SDS-PAGE

PGSHHGAEANL EMEEPESLN
TLKLCSPPEF TRLCREKTOE IYPIKEANGR TRKALIIICNT EFKHLSLRYG
ANFDIIGMKG LLEDLYDVV VKEELTAEGM ESEMDFEAL SEHQTSDSTF
LVLMHSHGLH GICGTMHSEK TPDVLQYDTI YQIFNNCHCP GLRDKPKVII
VQACRGGNSG EMWIRE

Sequence

NCBI AND UNIPROT INFORMATION

NCBI GI #	157951738
NCBI GeneID	12363
NCBI Accession #	NP_031635.2
NCBI GenBank Nucleotide #	NM_007609.2
UniProt Accession #	P70343; O08735; Q3TAF3
Molecular Weight	Predicted Molecular Mass: 22.5kDa Accurate Molecular Mass: 27kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	caspase-4
NCBI Official Synonym Full Names	caspase 4, apoptosis-related cysteine peptidase
NCBI Official Symbol	Casp4
NCBI Official Synonym Symbols	CaspI; ich-3; Casp11
NCBI Protein Information	caspase-4; CASP-4; CASP-11; protease ICH-3; caspase-11 short form splicing; caspase 4, apoptosis-related cysteine protease; caspase 11, apoptosis-related cysteine protease; caspase 11, apoptosis-related cysteine peptidase
UniProt Protein Name	Caspase-4
UniProt Gene Name	Casp4
UniProt Synonym Gene Names	Casp11; CaspI; Ich3; CASP-4; CASP-11
UniProt Entry Name	CASP4_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.