

Datasheet: AHP1788

Description:	RABBIT ANTI CASPASE-7 (N-TERMINAL)
Specificity:	CASPASE-7 (N-TERMINAL)
Other names:	ICE-LAP3
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			10ug/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			0.5ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to human Caspase-7 (NT) was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃).
Approx. Protein Concentrations	IgG concentration 1.0mg/ml.

Immunogen A 16 amino acid peptide from human Caspase-7 amino-terminus.

External Database Links

UniProt:

[P55210](#) [Related reagents](#)
[P97864](#) [Related reagents](#)

Entrez Gene:

[840](#) CASP7 [Related reagents](#)
[12369](#) Casp7 [Related reagents](#)

Synonyms Lice2, Mch3, MCH3

Specificity **Rabbit anti Caspase-7 (N-Terminal) antibody** recognizes an epitope within the N-Terminal region (NT) of Caspase-7, a ~35 kDa cysteine protease, otherwise known as ICE-like Apoptotic Protease 3 (ICE-LAP3).

Caspase-7, a member of the ICE/Ced-3 subfamily, is an executioner caspase which undergoes proteolytic cleavage of its precursor to form active p12 and p20 subunits. Evidence that activation of Caspase-7 occurs during cell death induced by the cytokine death receptors Fas/APO-1 and the receptor of tumour necrosis factor (TNFR-1), coupled with the fact that granzyme-B activated Caspase-7 cleaves the nuclear enzyme poly (ADP-ribose) polymerase (PARP), suggests an important role for Caspase-7 in both cytokine-mediated and granzyme-B mediated apoptosis pathways.

Histology Positive Control Tissue Skeletal muscle.

Western Blotting Rabbit anti human caspase-7 antibody detects a band of approximately 30kDa in human skeletal muscle cell lysate.

Further Reading

1. Duan, H. *et al.* (1996) ICE-LAP3, a novel mammalian homologue of the *Caenorhabditis elegans* cell death protein Ced-3 is activated during Fas- and tumor necrosis factor-induced apoptosis. [J Biol Chem. 271 \(3\): 1621-5.](#)
2. Juan, T.S. *et al.* (1997) Identification and mapping of Casp7, a cysteine protease resembling CPP32 beta, interleukin-1 beta converting enzyme, and CED-3. [Genomics. 40 \(1\): 86-93.](#)
3. Cohen, G.M. (1997) Caspases: the executioners of apoptosis. [Biochem J. 326 \(Pt 1\): 1-16.](#)

Storage Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)
[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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