

Datasheet: VMA00412

Description:	MOUSE ANTI CASPASE-3
Specificity:	CASPASE-3
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	CD3/3D6
Isotype:	IgG2b
Quantity:	100 µl

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
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography on Protein G from tissue culture supernatant.
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃).
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml.
Immunogen	<i>E.coli</i> -derived recombinant protein corresponding to aa 27-175 of human caspase-3

**External Database
Links**

UniProt:

[P42574](#) [Related reagents](#)

Entrez Gene:

[836](#) CASP3 [Related reagents](#)

Synonyms

CPP32

Specificity

Mouse anti Human caspase-3 antibody, clone CD3/3D6 recognizes caspase-3, also known as CASP-3, CPP-32, PARP cleavage protease, SREBP cleavage activity 1 and protein Yama (protein of death).

Encoded by the CASP3 gene, caspase-3 is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in apoptosis or programmed cell death. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. Caspase-3 cleaves and activates caspases 6, 7 and 9, and the protein itself is processed by caspases 8, 9 and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease. Alternative splicing of CASP3 results in two transcript variants that encode the same protein (provided by RefSeq, Jul 2008).

Mouse anti Human caspase-3 antibody, clone CD3/3D6 detects a band of 32 kDa corresponding to the full-length active protein. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting

Anti caspase-3 detects a band of approximately 32 kDa in HEK293 cell lysates.

Storage

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Guarantee

12 months from date of despatch.

Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only.

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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