

## Datasheet: VMA00412

<b>Description:</b>	MOUSE ANTI CASPASE-3
<b>Specificity:</b>	CASPASE-3
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb™ Monoclonal
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

**PrecisionAb antibodies have been extensively [validated for the western blot application](#).** The antibody has been validated at the suggested dilution. 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 dependant on sample type.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Mouse monoclonal antibody purified by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Immunogen</b>	<i>E.coli</i> -derived recombinant protein corresponding to aa 27-175 of human caspase-3
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P42574</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">836</a>    CASP3    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CPP32
<b>Specificity</b>	<b>Mouse anti Human caspase-3 antibody</b> 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 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.

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<b>Western Blotting</b>	Anti caspase-3 detects a band of approximately 32 kDa in HEK293 cell lysates
<b>Instructions For Use</b>	Please refer to the <a href="#">PrecisionAb western blotting protocol</a> . For additional information on secondary antibody dilution and exposure time see product web page.
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
<b>Shelf Life</b>	As supplied, 12 months from date of despatch.
<b>Acknowledgements</b>	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: Antibody (10040): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	For research purposes only

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## 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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