

Datasheet: VMA00412

**BATCH NUMBER 160303**

<b>Description:</b>	MOUSE ANTI CASPASE-3
<b>Specificity:</b>	CASPASE-3
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	CD3/3D6
<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

**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.

<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>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml
<b>Immunogen</b>	<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](#)

**North & South America**   Tel: +1 800 265 7376  
Fax: +1 919 878 3751

**Worldwide**   Tel: +44 (0)1865 852 700  
Fax: +44 (0)1865 852 739

**Europe**   Tel: +49 (0) 89 8090 95 21  
Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

'M380357:210510'

**Printed on 08 Feb 2023**

---

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)