

Datasheet: VMA00815

**BATCH NUMBER 100004553**

<b>Description:</b>	MOUSE ANTI CDC34
<b>Specificity:</b>	CDC34
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	AB02/4C3
<b>Isotype:</b>	IgG2a
<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>Species Cross Reactivity</b>	Reacts with: Mouse, Rat <b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
<b>Product Form</b>	Purified IgG - Liquid
<b>Preparation</b>	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide

## Stabilisers

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> -derived recombinant protein of amino acids 1-236 of human CDC34
External Database Links	<b>UniProt:</b> <a href="#">P49427</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">997</a> CDC34 <a href="#">Related reagents</a>
Synonyms	UBCH3, UBE2R1
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
Specificity	<b>Mouse anti CDC34 antibody</b> recognizes ubiquitin-conjugating enzyme E2 R1, also known as UBCH3, UBE2R1.  CDC34 is an E2 ubiquitin-conjugating enzyme involved with ubiquitin signaling, one of the main mechanisms of reversible post-translational modification of proteins ( <a href="#">Williams et al. 2019</a> ). CDC34 plays a role in cell cycle progression by facilitating degradation of several cyclin-dependent kinase inhibitors ( <a href="#">Zhang and Sun 2020</a> ). Furthermore, CDC34 also controls cell cycle progression at G1 by mediating degradation of p27KIP1 ( <a href="#">Han et al. 2018</a> ). Overexpression of CDC34 has been identified in several human cancers. Its overexpression has been shown to promote growth and survival of lung cancer cells, whereas its knockdown inhibited these processes. In patients, CDC34 overexpression appears to correlate with worse prognosis ( <a href="#">Zhang and Sun 2020</a> ).
Western Blotting	Mouse anti CDC34 antibody detects a band of approximately 31 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: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00815">https://www.bio-rad-antibodies.com/SDS/VMA00815</a>
Regulatory	For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M375083:201216'

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