

## Datasheet: VPA00073K

<b>Description:</b>	CARBONIC ANHYDRASE II ANTIBODY WITH CONTROL LYSATE
<b>Specificity:</b>	CARBONIC ANHYDRASE II
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb™ Polyclonal
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	10 Westerns

## 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>Species Cross Reactivity</b>	Reacts with: Mouse <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	100µl Sheep polyclonal antibody purified by affinity chromatography
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P00918</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">760</a>   CA2   <a href="#">Related reagents</a></p>

**Specificity**      **Sheep anti Human carbonic anhydrase II antibody** recognizes carbonic anhydrase II (CA-II), also known as carbonate dehydratase II and carbonic anhydrase C (CAC). CA-II is a ubiquitous zinc enzyme that catalyzes the reversible conversion of carbonic acid (H<sub>2</sub>CO<sub>3</sub>) to

carbon dioxide (CO<sub>2</sub>) and water (H<sub>2</sub>O). Carbonic anhydrase inhibitors have now been a mainstay of human clinical intervention for several decades, with at least 25 clinically used drugs that are CA inhibitors

Sheep anti Human carbonic anhydrase II antibody detects a single band of 29 kDa in the human epidermoid carcinoma A431 cell line lysate. Cross reactivity with mouse cell lines is also seen.

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**Western Blotting** Sheep anti carbonic anhydrase II detects a band of approximately 29 kDa in A431 cell lysates.

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**Instructions For Use** Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

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**Lysate Composition** 400µg A431 lysate lyophilized in RIPA buffer.

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**Lysate Reconstitution** - If using DDT reconstitute the lyophilized lysate with 190µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.  
- If using BME reconstitute the lyophilized lysate with 180µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.  
Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.

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**Storage** Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.

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**Shelf Life** As supplied, 12 months from date of despatch.

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**Acknowledgements** PrecisionAb™ is a trademark of Bio-Rad Laboratories.

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**Health And Safety Information** Material Safety Datasheet Documentation #10040 for antibody available at <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>  
Lysate Material Safety Datasheet Documentation #10561 available at <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2504...) [HRP](#)

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