

## Datasheet: VPA00355

<b>Description:</b>	RABBIT ANTI PHOSPHOLAMBAN (CARDIAC)
<b>Specificity:</b>	PHOSPHOLAMBAN (CARDIAC)
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Polyclonal
<b>Isotype:</b>	Polyclonal IgG
<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.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse

**N.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.

### Product Form

Purified IgG - liquid

### Preparation

Rabbit polyclonal antibody purified by affinity chromatography

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)

### Immunogen

KLH-conjugated synthetic peptide corresponding to aa 1-22 of human phospholamban

(cardiac)

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**External Database****Links****UniProt:**[P26678](#)[Related reagents](#)**Entrez Gene:**[5350](#)

PLN

[Related reagents](#)

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**Synonyms**

PLB

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**Specificity**

**Rabbit anti Human phospholamban (cardiac) antibody** recognizes phospholamban (cardiac).

Phospholamban (cardiac) is found as a pentamer and is a major substrate for the cAMP-dependent protein kinase in cardiac muscle. It is an inhibitor of cardiac muscle sarcoplasmic reticulum Ca(2+)-ATPase in the unphosphorylated state, but inhibition is relieved upon phosphorylation of the protein itself. The subsequent activation of the Ca(2+) pump leads to enhanced muscle relaxation rates, thereby contributing to the inotropic response elicited in heart by beta-agonists. Phospholamban (cardiac) is a key regulator of cardiac diastolic function. Mutations in Phospholamban (cardiac) gene are a cause of inherited human dilated cardiomyopathy with refractory congestive heart failure (provided by RefSeq, Jul 2008).

Rabbit anti Human phospholamban (cardiac) antibody detects bands of 12 and 24 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

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**Western Blotting**

Anti phospholamban (cardiac) detects bands of approximately 12 and 24 kDa in mouse heart tissue

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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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**Storage**

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

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**Guarantee**

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

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR208...) [HRP](#)

**North & South** Tel: +1 800 265 7376

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

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From  
March

15, 2021, we will no longer supply printed datasheets with our products.  
Look out for updates on how to access your digital version at [bio-rad-antibodies.com](http://bio-rad-antibodies.com)

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