Datasheet: VPA00355

Description:	RABBIT ANTI PHOSPHOLAMBAN (CARDIAC)
Specificity:	PHOSPHOLAMBAN (CARDIAC)
Format:	Purified
Product Type:	PrecisionAb™ Polyclonal
Isotype:	Polyclonal IgG
Quantity:	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.

	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.
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_3)
Immunogen	KLH-conjugated synthetic peptide corresponding to aa 1-22 of human phospholamban (cardiac)
External Database Links	**UniProt:** P26678 Related reagents **Entrez Gene:** 5350 PLN Related reagents
Synonyms	PLB

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.
Western Blotting	Anti phospholamban (cardiac) detects bands of approximately 12 and 24 kDa in mouse heart tissue
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.
Storage	Store undiluted at -20^{o}C, avoiding repeated freeze thaw cycles
Shelf Life	As supplied, 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 Rabbit IgG (H/L) (STAR208...) HRP

North & South America Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com

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