

Datasheet: VPA00846 BATCH NUMBER 170824

Description:	RABBIT ANTI IRP1	
Specificity:	IRP1	
Format:	Purified	
Product Type:	PrecisionAb Polyclonal	
Isotype:	Polyclonal IgG	
Quantity:	100 μΙ	

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

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.

Target Species	Human	
Species Cross Reactivity	Reacts with: Rat N.B. Antibody reactivity and working conditions may vary between reactivity is derived from testing within our laboratories, peer-repersonal communications from the originators. Please refer to further information.	eviewed publications or
Product Form	Purified IgG - liquid	
Preparation	Rabbit polyclonal antibody purified by affinity chromatography	on immunogen
Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	0.09% Sodium Azide <50% Glycerol	

Immunogen	Recombinant protein of human IRP1		
External Database Links	UniProt: P21399 Related reagents Entrez Gene: 48 ACO1 Related reagents		
Synonyms	IREB1		
Specificity	Rabbit anti Human IRP1 antibody recognizes IRP1, also known as IRE-BP 1, citrate hydro-lyase, ACO1 and cytoplasmic aconitate hydratase.		
	The protein encoded by ACO1 is a bifunctional, cytosolic protein that functions as an essential enzyme in the TCA cycle and interacts with mRNA to control the levels of iron inside cells. When cellular iron levels are high, this protein binds to a 4Fe-4S cluster and functions as an aconitase. Aconitases are iron-sulfur proteins that function to catalyze the conversion of citrate to isocitrate. When cellular iron levels are low, the protein binds to iron-responsive elements (IREs), which are stem-loop structures found in the 5' UTR of ferritin mRNA, and in the 3' UTR of transferrin receptor mRNA. When the protein binds to IRE, it results in repression of translation of ferritin mRNA, and inhibition of degradation of the otherwise rapidly degraded transferrin receptor mRNA. Alternative splicing results in multiple transcript variants (provided by RefSeq, May 2013).		
	Rabbit anti Human IRP1 antibody detects a band of 98 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.		
Western Blotting	Anti IRP1 antibody recognizes a band of approximately 98 kDa in HCT116 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 #10049 available at: https://www.bio-rad-antibodies.com/SDS/VPA00846 10049		
Regulatory	For research purposes only		

Related Products

Recommended Secondary Antibodies

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

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

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