Datasheet: MCA2695

Description:	MOUSE ANTI HUMAN ADIPONECTIN
Specificity:	ADIPONECTIN
Other names:	ADIPOQ
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	5H7
Isotype:	IgG1
Quantity:	0.1 mg

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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			1/1000 - 1/2000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

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

Purified IgG prepared by affinity chromatography on Protein G from ascites

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN_3), 10% Glycerol
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Recombinant human adiponectin (amino acids 15-244) purified from *Escherichia coli* .
External Database Links	**UniProt:** Q15848 Related reagents **Entrez Gene:** 9370 ADIPOQ Related reagents
Synonyms	ACDC, ACRP30, APM1, GBP28
RRID	AB_905906
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse Sp2/0 myeloma cell line.
Specificity	**Mouse anti Human adiponectin, clone 5H7** recognizes the collagen-like domain of human adiponectin, also known as Acrp30, Gelatin-binding protein, Adipose most abundant gene transcript 1 protein, Adipocyte complement-related 30 kDa protein or apM-1. Adiponectin a 244 amino acid ~30 kDa major adipokine secreted into the bloodstream from adipose tissue into the circulation where it exists as three distinct, low, medium and high molecular weight oligomeric forms (UniProt: Q15848). Circulating adiponectin levels are correlated with insulin sensitivity and decreased levels parallel the change in insulin sensitivity during the progression to type II diabetes (Heilbronn *et al.* 2011). Mutations in the adiponectin gene can also lead to adiponectin deficiency characterized by obesity, diabetes, high blood pressure and circulating cholesterol (Takahashi *et al.* 2000). Mouse anti Human adiponectin, clone 5H7 had been used successfully as a detection reagent in the development of sensitive sandwich ELISA's in conjunction with Mouse anti Human adiponectin, clone Adn27 (MCA4652) or Mouse anti Human adiponectin antibody, clone Adn36 (MCA4653) as capture reagents.
Western Blotting	MCA2695 detects a band of approximately 64kDa in mouse liver cell lysates.
Further Reading	1. Lihn, A.S. *et al.* (2005) Adiponectin: action, regulation and association to insulin sensitivity. Obes Rev. 6 (1): 13-21. 2. Trayhurn, P. & Wood, I.S. (2005) Signalling role of adipose tissue: adipokines and inflammation in obesity. Biochem Soc Trans. 33 (Pt 5): 1078-81.

Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10049 available at: https://www.bio-rad-antibodies.com/SDS/MCA2695 10049
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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

Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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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