

Datasheet: MCA1997 BATCH NUMBER 154551

Description:	MOUSE ANTI RAT CD47		
Specificity:	CD47		
Other names:	OX41 LIGAND, SIRP LIGAND		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	OX-101		
Isotype:	lgG1		
Quantity:	0.25 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	•			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Rat	
Product Form	Purified IgG - liquid	
Preparation	Purified IgG prepared by affinity chromatography on Protein G fron supernatant	n tissue culture
Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	0.09% Sodium Azide	

Carrier Free Yes Approx. Protein IgG concentration 1.0mg/ml Concentrations **Immunogen** Rat thymocytes. **External Database UniProt:** Links P97829 Related reagents **Entrez Gene:** 29364 Cd47 Related reagents **RRID** AB 2074952 **Specificity** Mouse anti Rat CD47 antibody, clone OX-101 recognizes the rat homologue of human CD47, also known as integrin associated protein (IAP). Rat CD47 is a 303 amino acid y33 kDa multi pass transmembrane glycoprotein bearing a single V-type Ig-like domain and has been identified as the ligand for the rat signal regulatory protein, SIRP (Vernon-Wilson et al. 2000). Rat CD47 is expressed primarily by lymphocytes and macrophages but has also been detected at high levels on brain endothelial cells. Mouse anti Rat CD47 antibody, clone OX-101 has been reported to block the interaction of CD47 and SIRP (Vernon-Wilson et al. 2000). Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul. References 1. Vernon-Wilson, E.F. et al. (2000) CD47 is a ligand for rat macrophage membrane signal regulatory protein SIRP (OX41) and human SIRPalpha 1. Eur J Immunol. 30 (8): 2130-7. 2. de Vries, H.E. et al. (2002) Signal-regulatory protein alpha-CD47 interactions are required for the transmigration of monocytes across cerebral endothelium. J Immunol. 168 (11): 5832-9. 3. Sick, E. et al. (2009) Activation of CD47 receptors causes histamine secretion from mast cells. Cell Mol Life Sci. 66: 1271-82. 4. Barrès, C. et al. (2010) Galectin-5 is bound onto the surface of rat reticulocyte exosomes and modulates vesicle uptake by macrophages. Blood. 115: 696-705. 5. Kurihara H et al. (2010) SIRP-alpha-CD47 system functions as an intercellular signal in the renal glomerulus. Am J Physiol Renal Physiol. 299 (3): F517-27. Storage Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we

recommend microcentrifugation before use.

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)

Goat Anti Mouse IgG IgA IgM (STAR87...)

RPE

Goat Anti Mouse IgG (STAR76...)

RPE

Rabbit Anti Mouse IgG (STAR13...)

HRP

Goat Anti Mouse IgG (STAR70...)

FITC

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 (STAR9...) <u>FITC</u>
Goat Anti Mouse IgG (STAR77...) <u>HRP</u>

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA1209)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

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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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