

Datasheet: MCA2486

Description:	MOUSE ANTI HUMAN MCP-1			
Specificity:	MCP-1			
Other names:	CCL2			
Format:	Purified			
Product Type:	Monoclonal Antibody			
Clone:	2.2-4H5-1A11			
lsotype:	lgG1			
Quantity:	0.5 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.biorad-antibodies.com/protocols.

		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry			•		
	Immunohistology - Frozen			•		
	Immunohistology - Paraffin	-			10	
	(1)	-			10ug/ml	
	ELISA	•			1.0 - 2.0ug/ml	
	Immunoprecipitation			•		
	Western Blotting				0.2 - 0.4ug/ml	
	Where this antibody has r	not been	tested for	use in a particular teo	chnique 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 antibody for use in their own					
	•		•			
	a guide only. It is recomm	nended tl	hat the us	er titrates the antibody		
	•	nended tl	hat the us	er titrates the antibody		
	a guide only. It is recomm system using appropriate	nended ti negative	nat the us e/positive	er titrates the antibody controls.	for use in their own	
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Target Species	a guide only. It is recomm system using appropriate (1) This product requires paraffin sections. Sodiu	nended ti negative s antige	nat the us e/positive n retrieva	er titrates the antibody controls. I using heat treatmer	for use in their own	
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Product Form	a guide only. It is recomm system using appropriate (1) This product requires paraffin sections. Sodiu Human Purified IgG - lyophilized Reconstitute with 0.5 ml o	nended ti negative s antige im citrat	nat the us e/positive n retrieva e buffer p	er titrates the antibody controls. I using heat treatmer oH 6.0 is recommend	for use in their own nt prior to staining of ed for this purpose.	
Product Form	 a guide only. It is recommon system using appropriate (1)This product requires paraffin sections. Sodiu Human Purified IgG - lyophilized Reconstitute with 0.5 ml of Care should be taken dur 	negative negative s antige i m citrat distilled v	nat the us positive n retrieva e buffer p vater nstitution	er titrates the antibody controls. I using heat treatmer oH 6.0 is recommend	o for use in their own nt prior to staining of ed for this purpose.	
Product Form	a guide only. It is recomm system using appropriate (1) This product requires paraffin sections. Sodiu Human Purified IgG - lyophilized Reconstitute with 0.5 ml o	nended ti negative s antige im citrat distilled v ing reco d recom	nat the us e/positive n retrieva e buffer p vater nstitution mend that	er titrates the antibody controls. I using heat treatmer oH 6.0 is recommend as the protein may app the vial is gently mixe	of for use in their own of prior to staining of ed for this purpose. pear as a film at the ed after reconstitution.	

Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml after reconstitution
Immunogen	Recombinant human MCP-1/MCAF (PHP061)
External Database Links	UniProt: <u>P13500</u> <u>Related reagents</u>
	Entrez Gene: 6347 CCL2 Related reagents
Synonyms	MCP1, SCYA2
RRID	AB_2071556
Fusion Partners	Spleen cells from immunized BALB/c X ICR F_1 mice were fused with cells of a mouse myeloma cell line.
Specificity	Mouse anti Human MCP-1 antibody, clone 2.2-4H5-1A11 recognizes human C-C motif chemokine 2, also known as Monocyte chemoattractant protein 1 (MCP-1), Monocyte chemotactic and activating factor, Monocyte secretory protein JE, Small-inducible cytokine A2 or CCL2, and does not cross react with MCP-2, MCP-3 or other structurally related chemokines. MCP-1 is a 99 amino acid, including a 23 aa signal peptide ~13 kDa chemotactic protein, a chemoattractant for monocytes and basophils but not neutrophils or eosinophils (Weber <i>et al.</i> 1996).
	MCP-1 is produced by a number of cell types, including monocytes, macrophages, microglia, fibroblasts and epithelial cells (<u>Cushing <i>et al.</i> 1990</u>). MCP-1 influences T-cell immunity polarizing responses towards the Th2 phenotype (<u>Karpus and Kennedy 1997</u>). Variations in the CCL2 gene affects susceptibility to <i>Mycobacteriun tuberculosis</i> infection (<u>Flores-Villanueva <i>et al.</i> 2005</u>). Mouse anti Human MCP-1 antibody, clone 2.2-4H5-1A11 recognizes both native MCP-1
	and recombinant MCP-1
ELISA	This product may be used in an indirect ELISA or as a capture antibody in a sandwich ELISA together with <u>PHP061</u> as the standard.

Histology Positive Control Tissue	Human Breast Invasive Ductal Carcinoma
Western Blotting	This product may be used under either reducing or non-reducing conditions together with <u>PHP061</u> as the positive control.
References	 Johansson, U. <i>et al.</i> (2008) Formation of composite endothelial cell-mesenchymal stem cell islets: a novel approach to promote islet revascularization. <u>Diabetes. 57: 2393-401.</u> Nio-Kobayashi J <i>et al.</i> (2015) Regulated C-C motif ligand 2 (CCL2) in luteal cells contributes to macrophage infiltration into the human corpus luteum during luteolysis. <u>Mol Hum Reprod. pii: gav028.</u> Chuang, L.P. <i>et al.</i> (2016) Increased MCP-1 gene expression in monocytes of severe OSA patients and under intermittent hypoxia. <u>Sleep Breath. 20 (1): 425-33.</u>
Storage	This product is shipped at ambient temperature. Prior to reconstitution store at -20°C. After reconstitution store at -20°C. 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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10294 available at: https://www.bio-rad-antibodies.com/SDS/MCA2486 10294
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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	То
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio	o-rad.com	Email: antibody_sales_de@bio-rad.comd a	
batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets						

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