

Datasheet: MCA4703 BATCH NUMBER 170116

Description: RAT ANTI MOUSE CD4		
Specificity:	CD44	
Other names:	H-CAM, PGP-1	
Format:	Purified	
Product Type:	Monoclonal Antibody	
Clone:	IM7	
Isotype:	lgG2b	
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	•			1/20 - 1/50
Immunohistology - Frozen	•			
Immunohistology - Paraffin	•			
ELISA	•			
Immunoprecipitation	•			
Western Blotting				
Functional Assays	•			

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.

Species Cross Reactivity

Reacts with: Human, Baboon, Cynomolgus monkey, Rhesus Monkey, Horse, Bovine, Pig, Dog, Cat, Ferret

Based on sequence similarity, is expected to react with: Mustelid

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
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.5mg/ml
Immunogen	Dexamethasone-induced myeloid leukemia M1 cells.
External Database Links	UniProt: P15379 Related reagents Entrez Gene: 12505 Cd44 Related reagents
Synonyms	Ly-24
RRID	AB_2076194
Specificity	Rat anti Mouse CD44 antibody, clone IM7 recognizes CD44, also known as H-CAM, HUTCH and lymphocyte antigen 24 (Ly-24).
	CD44 is a cell surface receptor for hyaluronic acid, although it can also interact with other ligands such as collagens and matrix metalloproteinases. This protein plays a role in a variety of cellular functions, such as adhesion, lymphocyte activation and lymph node homing. It is also involved in cell migration and plays a role in tumor metastasis. CD44 has many distinct isoforms responsible for its functional diversity.
	ligands such as collagens and matrix metalloproteinases. This protein plays a role in a variety of cellular functions, such as adhesion, lymphocyte activation and lymph node homing. It is also involved in cell migration and plays a role in tumor metastasis. CD44
Flow Cytometry	ligands such as collagens and matrix metalloproteinases. This protein plays a role in a variety of cellular functions, such as adhesion, lymphocyte activation and lymph node homing. It is also involved in cell migration and plays a role in tumor metastasis. CD44 has many distinct isoforms responsible for its functional diversity. Rat anti Mouse CD44 antibody, clone IM7 recognizes all isoforms of CD44 and has been reported to inhibit a delayed-type hypersensitivity response <i>in vivo</i> and to induce

- 5. Lesley, J. et al. (2003) Hyaluronan binding by cell surface CD44. J Biol Chem. 275: 26967-75.
- 6. Morrison, H. et al. (2001) The NF2 tumor suppressor gene product, merlin, mediates contact inhibition of growth through interactions with CD44. Genes Dev.15: 968-80.
- 7. Martín-Villar, E. et al. (2010) Podoplanin associates with CD44 to promote directional cell migration. Mol Biol Cell. 21: 4387-99.
- 8. Ariyoshi, W. et al. (2010) Internalization of aggrecan G1 domain neoepitope ITEGE in chondrocytes requires CD44. J Biol Chem. 285: 36216-24.
- 9. Rutigliano, J.A. et al. (2008) Screening monoclonal antibodies for cross-reactivity in the ferret model of influenza infection. J Immunol Methods. 336: 71-7.
- 10. Maeda, S. et al. (2021) NAFLD exacerbates cholangitis and promotes cholangiocellular carcinoma in mice. Cancer Sci. 112 (4): 1471-80.
- 11. Hartley, A.N. & Tarleton, R.L. (2015) Chemokine receptor 7 (CCR7)-expression and IFNy production define vaccine-specific canine T-cell subsets. Vet Immunol Immunopathol. 164 (3-4): 127-36.

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. 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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA4703 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...) **FITC** Goat Anti Rat IgG (STAR73...) **RPE**

Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) DyLight®550, DyLight®650, DyLight®800

Rabbit Anti Rat IgG (STAR21...) **HRP**

Rabbit Anti Rat IgG (STAR16...) DyLight®800 Goat Anti Rat IgG (STAR131...) Alk. Phos., Biotin

Rabbit Anti Rat IgG (STAR17...) **FITC** Goat Anti Rat IgG (STAR72...) **HRP**

Recommended Useful Reagents

ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A)

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Fax: +1 919 878 3751

Worldwide

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