

Datasheet: MCA4703F BATCH NUMBER 149930

| Description: | RAT ANTI MOUSE CD44:FITC |
|---------------|--------------------------|
| Specificity: | CD44 |
| Other names: | H-CAM, PGP-1 |
| Format: | FITC |
| Product Type: | Monoclonal Antibody |
| Clone: | IM7 |
| lsotype: | lgG2b |
| 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 <u>www.bio-rad-antibodies.com/protocols</u> . | | | | |
|-----------------------------|--|--|----------------------------|--------------------------|--|
| | | Yes No | Not Determined | Suggested Dilution | |
| | Flow Cytometry | | | 1/20 | |
| | necessarily exclude it | s use in such proced mmended that the us | ser titrates the product f | g dilutions are given as | |
| Target Species | Mouse | | | | |
| Species Cross Reactivity | Dog, Cat, Ferret Based on sequence s N.B. Antibody reactivi reactivity is derived fro | imilarity, is expected ty and working condit om testing within our | | wed publications or | |
| Product Form | Purified IgG conjugate | ed to Fluorescein Isot | hiocyanate Isomer 1 (F | TTC) - liquid | |
| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm) | | |
| | FITC | 490 | 525 | | |
| Preparation | Purified IgG prepared | by affinity chromatog | Iraphy | | |

| Buffer Solution | Phosphate buffered saline | |
|-----------------------------------|---|---|
| Preservative Stabilisers | 0.09% Sodium Azide (NaN ₃) | |
| Approx. Protein Concentrations | IgG concentration 0.5 mg/ml | |
| Immunogen | Dexamethasone-induced myeloid leukemia M1 cells. | |
| External Database Links | UniProt: P15379 Related reagents | |
| | | |
| | Entrez Gene: <u>12505</u> Cd44 <u>Related reagents</u> | |
| Synonyms | Ly-24 | |
| Specificity | Rat anti Mouse CD44 antibody, clone IM7 recognizes CD44, HUTCH and lymphocyte antigen 24 (Ly-24). | also known as H-CAM, |
| | CD44 is a cell surface receptor for hyaluronic acid, although it ligands such as collagens and matrix metalloproteinases. This variety of cellular functions, such as adhesion, lymphocyte acti- homing. It is also involved in cell migration and plays a role in t has many distinct isoforms responsible for its functional diversi | protein plays a role in a vation and lymph node rumor metastasis. CD44 |
| | Rat anti Mouse CD44 antibody, clone IM7 recognizes all isofor reported to inhibit a delayed-type hypersensitivity response <i>in v</i> complement-mediated cytotoxicity. | |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 1×10^{6} cells | in 100ul |
| References | Camp, R.L. <i>et al.</i> (1993) CD44 is necessary for optimal cont not required for normal leukocyte extravasation. J Exp Med. 17 Brocke, S. <i>et al.</i> (1999) Antibodies to CD44 and integrin alph prevent central nervous system inflammation and experimental blocking secondary leukocyte recruitment. Proc Natl Acad Sci I 3. Lesley, J. <i>et al.</i> (1992) Requirements for hyaluronic acid bind cytoplasmic domain and activation by antibody. J Exp Med. 175 Katoh, S. <i>et al.</i> (2003) A role for CD44 in an antigen-induced pulmonary eosinophilia. J Clin Invest. 111: 1563-70. Lesley, J. <i>et al.</i> (2003) Hyaluronan binding by cell surface CI 26967-75. Morrison, H. <i>et al.</i> (2001) The NF2 tumor suppressor gene p contact inhibition of growth through interactions with CD44. Ge 7. Martín-Villar, E. <i>et al.</i> (2010) Podoplanin associates with CD | <u>78: 497-507.</u> ma4, but not L-selectin, I encephalomyelitis by <u>U S A. 96: 6896-901.</u> ding by CD44: a role for the <u>5: 257-66.</u> d murine model of D44. <u>J Biol Chem. 275:</u> product, merlin, mediates mes Dev.15: 968-80. |

| | 8. Ariyoshi, W. et al. (2010) Internalization of aggrecan G1 domain neoepitope ITEGE in |
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| | chondrocytes requires CD44. <u>J Biol Chem. 285: 36216-24.</u> |
| | 9. Rutigliano, J.A. et al. (2008) Screening monoclonal antibodies for cross-reactivity in the |
| | ferret model of influenza infection. <u>J Immunol Methods. 336: 71-7.</u> |
| | 10. Maeda, S. et al. (2021) NAFLD exacerbates cholangitis and promotes |
| | cholangiocellular carcinoma in mice. <u>Cancer Sci. 112 (4): 1471-80.</u> |
| | 11. Hartley, A.N. & Tarleton, R.L. (2015) Chemokine receptor 7 (CCR7)-expression and |
| | IFNγ production define vaccine-specific canine T-cell subsets. <u>Vet Immunol Immunopath</u> <u>164 (3-4): 127-36.</u> |
| Storage | Store at +4°C. DO NOT FREEZE. |
| | This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use. |
| Guarantee | 12 months from date of despatch |
| Health And Safety | Material Safety Datasheet documentation #10040 available at: |
| | • |
| • | https://www.bio-rad-antibodies.com/SDS/MCA4703F |
| Information | https://www.bio-rad-antibodies.com/SDS/MCA4703F 10040 |
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