

Datasheet: MCA643F BATCH NUMBER 158801

| Description: | MOUSE ANTI RAT CD44:FITC | | |
|----------------------|--------------------------|--|--|
| Specificity: | CD44 | | |
| Other names: | H-CAM, PGP-1 | | |
| Format: | FITC | | |
| Product Type: | Monoclonal Antibody | | |
| Clone: | OX-50 | | |
| Isotype: | lgG1 | | |
| 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 | - | | | Neat - 1/10 |

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

| Product Form | Purified IgG conjugat | ted to Fluorescein Isoth | niocyanate Isomer |
|---|-----------------------|--------------------------|-------------------------|
| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm |
| | FITC | 490 | 525 |
| Preparation | Purified IgG prepared | d by affinity chromatog | ranhy on Protein A |
| | supernatant | a by anning officinatogi | raphly of the following |
| Buffer Solution | • | | Taphy on Flotein A |
| uffer Solution eservative abilisers | supernatant | saline | Taphy on Flotein A |

| Concentrations | |
|----------------------------|--|
| Immunogen | Rat T cell blasts. |
| External Database Links | UniProt: P26051 Related reagents |
| | Entrez Gene: 25406 Cd44 Related reagents |
| RRID | AB_321722 |
| Fusion Partners | Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS0/1 myeloma cell line. |
| Specificity | Mouse anti Rat CD44 antibody, clone OX-50 recognizes the rat CD44 cell surface antigen, also known as Extracellular matrix receptor III, P90 lymphocyte homing/adhesion receptor, HUTCH-I, Hermes antigen, Hyaluronate receptor, Phagocytic glycoprotein 1, PGP-1 or Phagocytic glycoprotein I. |
| | CD44 is a 482 amino acid ~85 kDa single pass type I transmembrane glycoprotein, expressed by T cells, B cells, macrophages and thymocytes, with expression being increased following activation. |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. |
| References | Stevenson, K.S. <i>et al.</i> (2009) Isolation, characterization, and differentiation of thy1.1-sorted pancreatic adult progenitor cell populations. <u>Stem Cells Dev. 18:1389-98.</u> Jiang, T.S. <i>et al.</i> (2010) Reconstruction of the corneal epithelium with induced marrow mesenchymal stem cells in rats. <u>Mol Vis. 16: 1304-16.</u> Kanellis, J. <i>et al.</i> (2010) JNK signalling in human and experimental renal ischaemia/reperfusion injury. <u>Nephrol Dial Transplant. 25: 2898-908.</u> Li, S. <i>et al.</i> (2010) Upregulation of CXCR4 favoring neural-like cells migration via AKT activation. <u>Neurosci Res. 67: 293-9.</u> Stephens, L.A. <i>et al.</i> (2004) Phenotypic characterization of regulatory CD4+CD25+ T |
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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. This product is photosensitive and should be protected from light.

| Guarantee | 12 months from date of despatch |
|----------------------------------|--|
| Health And Safety Information | Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA643F 10041 |
| Regulatory | For research purposes only |

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA1209F)

 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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M385312:210513'

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