

Datasheet: MCA799F

BATCH NUMBER 172206

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|----------------------|----------------------------|
| Description: | MOUSE ANTI RABBIT CD4:FITC |
| Specificity: | CD4 |
| Format: | FITC |
| Product Type: | Monoclonal Antibody |
| Clone: | KEN-4 |
| Isotype: | IgG2a |
| Quantity: | 100 TESTS |

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 |

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.

Target Species

Rabbit

Species Cross Reactivity

Reacts with: Brown Hare (*Lepus europeus*)

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 conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em

| Fluorophore | Excitation Max (nm) | Emission Max (nm) |
|-------------|---------------------|-------------------|
| FITC | 490 | 525 |

Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

| | |
|---------------------------------------|--|
| Preservative Stabilisers | 0.09% Sodium Azide 1% Bovine Serum Albumin |
| Approx. Protein Concentrations | IgG concentration 0.1 mg/ml |
| Immunogen | Rabbit thymocytes. |
| External Database Links | <p>UniProt: P46630 Related reagents</p> <p>Entrez Gene: 100009152 CD4 Related reagents</p> |
| RRID | AB_2075555 |
| Fusion Partners | Spleen cells from immunized mice were fused with cells of the mouse PAI myeloma cell line. |
| Specificity | <p>Mouse anti Rabbit CD4 antibody, clone KEN-4 recognizes the rabbit CD4 cell surface antigen, also known as T-cell surface antigen T4/Leu-3. Rabbit CD4 is a 434 amino acid, with an additional N-terminal signal peptide ~50 kDa cell surface single pass, type I transmembrane glycoprotein expressed by T helper cells.</p> <p>Mouse anti Rabbit CD4 antibody, clone KEN-4 blocks the allogeneic mixed lymphocyte reaction response.</p> |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 10 ⁶ cells or 100ul whole blood. |
| References | <ol style="list-style-type: none"> Perosa, F. and Dammacco, F. (1994) Anti-idiotypic monoclonal antibodies (mAb) to an anti-CD4 mAb induce CD4+ T cell depletion in rabbit. Int J Clin Lab Res. 24: 208-12. Renaux, S. <i>et al.</i> (2003) Dynamics and responsiveness of T-lymphocytes in secondary lymphoid organs of rabbits developing immunity to <i>Eimeria intestinalis</i>. Vet Parasitol. 110 (3-4): 181-95. Dewals, B. <i>et al.</i> (2008) Malignant catarrhal fever induced by alcelaphine herpesvirus 1 is associated with proliferation of CD8+ T cells supporting a latent infection. PLoS ONE 3: e1627. Pakandl, M. <i>et al.</i> (2008) Dependence of the immune response to coccidiosis on the age of rabbit suckling. Parasitol Res. 103 (6): 1265-71. Yang, J. <i>et al.</i> (2009) Expression and localization of rabbit B-cell activating factor (BAFF) and its specific receptor BR3 in cells and tissues of the rabbit immune system. Dev Comp Immunol. 33 (5): 697-708. Chentoufi, A.A. <i>et al.</i> (2010) A novel HLA (HLA-A*0201) transgenic rabbit model for preclinical evaluation of human CD8+ T cell epitope-based vaccines against ocular herpes. J Immunol. 184: 2561-71. Rütgen, B.C. <i>et al.</i> (2014) Exploratory assessment of CD4+ T lymphocytes in brown hares (<i>Lepus europeus</i>) using a cross-reactive anti-rabbit CD4 antibody. Vet Immunol |

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with different potentials for growth rate and resilience: pathways towards healthier animals. [Vet Res. 56 \(1\): 226.](#)

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/MCA799F>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:FITC \(MCA929F\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M385337:210513'

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