Datasheet: MCA2474F

Description: RAT ANTI MOUSE CD71:FITC
Specificity: CD71
Other names: TRANSFERRIN RECEPTOR
Format: FITC
Product Type: Monoclonal Antibody
Clone: 8D3
Isotype: IgG2a
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.

<table>
<thead>
<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>Neat</td>
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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.

Target Species: Mouse

Product Form: Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em

<table>
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<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
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<tr>
<td>FITC</td>
<td>490</td>
<td>525</td>
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Preparation
Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution: Phosphate buffered saline

Preservative
0.09% Sodium Azide (NaN₃)

Stabilisers
1% Bovine Serum Albumin

Approx. Protein Concentrations
IgG concentration 0.1 mg/ml

Immunogen
Mouse transformed endothelioma cell line t.end1.

External Database Links
UniProt: Q62351 Related reagents
Fusion Partners
Spleen cells from immunised Lewis rats were fused with the cells of the mouse NS0 myeloma cell line.

Specificity
Rat anti Mouse CD71 antibody, clone 8D3 recognizes mouse CD71, a 763 amino acid ~95 kDa single pass type II cell surface transmembrane glycoprotein, otherwise known as the transferrin receptor. CD71 is a major iron-binding protein, which plays a key role in the transport of iron into cells that require it. In mice, CD71 is widely expressed on a variety of cells, including Sertoli cells and cells which form the blood brain barrier (BBB) in the central nervous system.

Rat anti Mouse CD71 antibody, clone 8D3 recognizes native, soluble and denatured forms of murine CD71. Binding of the 8D3 antibody to CD71 does not inhibit the proliferation of cell lines tested, and does not interfere with the uptake of iron into cells.

Rat anti Mouse CD71 antibody, clone 8D3 has been used as a BBB transporter vector in mice and is suitable for studying CD71 expression, and iron uptake into different tissues, in the mouse (Kissel et al. 1988).

Flow Cytometry
Use 10ul of the suggested working dilution to label 10^6

References

Further Reading

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. This product is photosensitive and should be protected.
from light.
Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.