Datasheet: MCA1322PET

### Description:
RAT ANTI MOUSE CD204:RPE

### Specificity:
CD204

### Other names:
SCAVENGER RECEPTOR TYPE I/II

### Format:
RPE

### Product Type:
Monoclonal Antibody

### Clone:
2F8

### Isotype:
IgG2b

### Quantity:
25 TESTS/0.25ml

### RRID
AB_2148249

### 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>
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<tr>
<th>Suggested Dilution</th>
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<tr>
<td>Flow Cytometry</td>
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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
Mouse

### Species Cross Reactivity
Reacts with: Pig, Channel catfish

**N.B.** Antibody reactivity and working conditions may vary between species.

### Product Form
Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised

### Reconstitution
Reconstitute with 0.25 ml distilled water

### 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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<td>RPE 488nm laser</td>
<td>496</td>
<td>578</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 Stabilisers
- 0.09% Sodium Azide
- 1% Bovine Serum Albumin
- 5% Sucrose
Immunogen Raw 264 cell line

External Database Links
UniProt: P30204 Related reagents
Entrez Gene: 20288 Msr1 Related reagents

Synonyms Scvr

Fusion Partners Spleen cells from immunised AO rats were fused with cells of the Y3 rat myeloma cell line

Specificity Rat anti Mouse CD204 antibody, clone 2F8 recognizes the murine scavenger receptor class A (SRA), type I and II, also known as CD204. CD204 is expressed by tissue macrophages and functions both as an endocytic receptor for lipoproteins and as an adhesion receptor for macrophages binding to ligand rich tissues e.g. atherosclerotic lesions. Clone 2F8 inhibits the uptake of acetylated low-density lipoproteins and also inhibits divalent cation independent adhesion (Fraser et al. 1993).

Rat anti Mouse CD204 antibody, clone 2F8 recognizes an epitope within SRA that is polymorphic in the SRA from C57BL/6 mice. Clone 2F8 is therefore unsuitable for use with the C57BL/6 mouse strain (Daugherty et al. 2000).

Flow Cytometry Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.

The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B).

References

**Storage**

Prior to reconstitution store at +4°C.
After reconstitution 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 reconstitution.

**Health And Safety Information**
