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Purified Anti-Rat SIRP (Signal-Regulatory Protein) Monoclonal Antibody

Catalogue#	Format	Size	Concentration	Isotype Control
CL041AP	Purified	200 µg	1.0 mg/ml	CLCMG2A00
CL041B	Biotin	100 µg	0.1 mg/ml	CLCMG2A15
CL041F	FITC	100 µg	0.1 mg/ml	CLCMG2A01
CL041PE	PE	50 µg	0.1 mg/ml	CLCMG2A04

Isotype: Mouse IgG_{2a}

DESCRIPTION:

CL041AP (MRC OX-41) monoclonal antibody recognizes rat SIRP (Signal-Regulatory Protein), a surface protein of about 110 kDa. SIRP is selectively expressed by myeloid cells (macrophages, monocytes, granulocytes, dendritic cells) and neurons. The SIRP antigen is a transmembrane glycoprotein with 3 immunoglobulin-like extracellular domains: an N-terminal V-set domain and two C1-set domains. The SIRP Ig domains are closely related to those of the antigen receptors, Ig, TCR and MHC. The selective expression of this antigen by myeloid and neuronal cells suggests that SIRP is involved in the modulation of myeloid and neuronal cell function.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN_3. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.
Biotin, FITC and PE: Biotin/FITC/PE conjugated IgG buffered in PBS, 0.02% NaN_3 and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

STORAGE/STABILITY:

Store at 4°C. ***Do Not Freeze PE Conjugates.*** For long term storage aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid repeated freeze/thaw cycles.

APPLICATION:

This clone can be used in FACS analysis, immunofluorescence, immunocytochemistry, and indirect radioimmunoassays.

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SPECIFICATIONS:

Clone: MRC OX-41

Hybridoma Production:

Immunization: Immunogen: Rat Peritoneal Macrophages
Donor: BALB/c Spleen

Fusion Partner: NSO/U

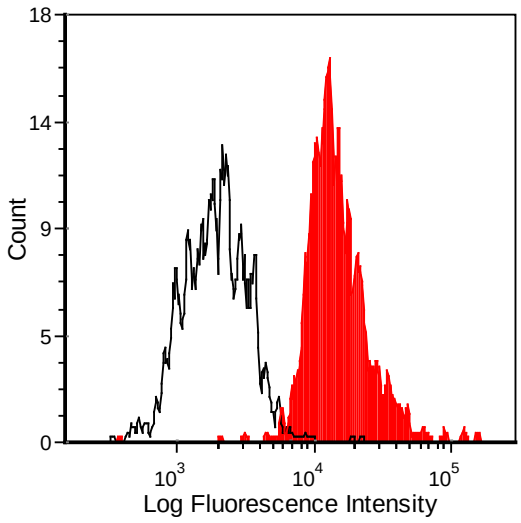
Specificity: Rat SIRP (Signal-Regulatory Protein)

Ig Class: Mouse IgG_{2a}

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: Fisher
Cell Concentration : $1x10^6$ cells per tests
Antibody Concentration Used: 0.2 µg/10^6 cells
Isotypic Control: Purified Mouse IgG_{2a}



Fischer rat peritoneal macrophages were stained with anti-CD172a (SIRP) (clone: OX-41) (filled histogram) or mouse IgG2a isotype control (open histogram).

N.B. Appropriate control samples should always be included in any labelling studies.
*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

REFERENCES:

1. Robinson, A. P., White, T. M. and Mason, D. W. (1986) Macrophage heterogeneity in the rat as delineated by two monoclonal antibodies MRC OX-41 and MRC OX-42, the latter recognizing complement receptor type 3. *Immunology* **57**: 239-247.

2. Adams, S., van der Laan, L. J. W., Vernon-Wilson, E., Renardel de Lavalette, C., Dopp, E. A., Dijkstra, C. D., Simmons, D. L. and van der Berg, T. K. (1998) Signal-Regulatory Protein is Selectively Expressed by Myeloid and Neuronal Cells. *The Journal of Immunology* 161:1853-1859.

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