

Antibodies

Mouse IgG2a, kappa Isotype Control Antibody, Clone MOPC-173, PE

Mouse monoclonal IgG2a, kappa
isotype control antibody, PE-
conjugated



Scientists Helping Scientists™ | WWW.STEMCELL.COM

TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM

FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE

Catalog #60071PE
#60071PE.1

100 µg 0.2 mg/mL
25 µg 0.2 mg/mL

FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.

Product Description

The MOPC-173 antibody (IgG2a, kappa) is suitable for use as an isotype-matched control antibody in several applications to estimate the degree of non-specific binding by an antigen specific antibody. Ideally, the isotype control should have the same subclass of heavy chain (IgA, IgD, IgE, IgG, or IgM) and light chain (kappa or lambda) as the specific antibody being employed. If a conjugated antibody is employed, an isotype control conjugated to the same molecule (e.g. fluorochrome) should be chosen. The use of an appropriate isotype control helps confirm the specificity of the antigen-specific antibody and indicates non-specific binding that may result from binding to Fc receptors or other cell components. The MOPC-173 antibody is produced by a mineral oil-induced plasmacytoma cell line and has unknown binding specificity, having been screened on a variety of activated, resting, live and fixed tissues from several species, including mouse, rat, human and non-human primates.

Target Antigen Name:	IgG2a Isotype Control
Alternative Names:	Not applicable
Gene ID:	Not applicable
Species Reactivity:	Not applicable
Host Species:	Mouse (BALB/c)
Clonality:	Monoclonal
Clone:	MOPC-173
Isotype:	IgG2a, kappa
Immunogen:	Mineral oil
Conjugate:	PE

Applications

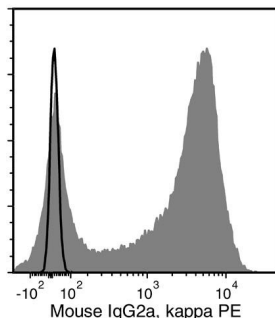
Verified:	FC
Reported:	FC, ICC, IF
Special Applications:	This antibody clone has been verified for use as an isotype control antibody for assessing non-specific binding to cells in flow cytometry and immunofluorescence microscopy applications (surface and intracellular staining).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; WB: Western blotting

Properties

Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Purification:	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com .
Directions for Use:	The suggested use of this antibody is at concentrations comparable to those of the specific antibody of interest.

Data



Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs) labeled with Mouse IgG2a, kappa Isotype Control Antibody, Clone MOPC-173, PE (solid line histogram). Filled histogram shows labeling with a mouse IgG2a, kappa positive control antibody (Anti-Human CD45RO Antibody, Clone UCHL1, PE; Catalog #60097PE).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

1. Ameres S et al. (2014) CD8 T cell-evasive functions of human cytomegalovirus display pervasive MHC allele specificity, complementarity, and cooperativity. *J Immunol* 192(12): 5894–905. (FC)
2. Gurses KM et al. (2014) Markers of subclinical atherosclerosis in premenopausal women with vitamin D deficiency and effect of vitamin D replacement. *Atherosclerosis* 237(2): 784–89. (FC)
3. Headland SE et al. (2014) Cutting-edge analysis of extracellular microparticles using ImageStream(X) imaging flow cytometry. *Sci Rep* 4: 5237. (FC)
4. MacDonald KP et al. (2014) Modification of T cell responses by stem cell mobilization requires direct signalling of the T cell by G-CSF and IL-10. *J Immunol* 192(7): 3180–89. (FC)
5. Obermayer A et al. (2014) New aspects on the structure of neutrophil extracellular traps from chronic obstructive pulmonary disease and in vitro generation. *PLoS One* 9(5): e97784. (ICC, IF)
6. Van de Garde MDB et al. (2014) Chronic exposure to glucocorticoids shapes gene expression and modulates innate and adaptive activation pathways in macrophages with distinct changes in leukocyte attraction. *J Immunol* 192(8): 1196–208. (FC)
7. Bacher P et al. (2013) Antigen-reactive T cell enrichment for direct, high-resolution analysis of the human naive and memory Th cell repertoire. *J Immunol* 190(8): 3967–76. (FC)
8. Mohme M et al. (2013) HLA-DR15-derived self-peptides are involved in increased autologous T cell proliferation in multiple sclerosis. *Brain* 136(6): 1783–98. (FA/Blocking)
9. Ohno Y et al. (2013) Association of epigenetic alterations in the human C7orf24 gene with the aberrant gene expression in malignant cells. *J Biochem* 154(4): 355–62. (IP)
10. Zhou X et al. (2013) Variation in dietary salt intake induces coordinated dynamics of monocyte subsets and monocyte-platelet aggregates in humans: Implications in end organ inflammation. *PLoS One* 8(4): e60332. (FC)
11. Podolin PL et al. (2008) Inhibition of invariant chain processing, antigen-induced proliferative responses, and the development of collagen-induced arthritis and experimental autoimmune encephalomyelitis by a small molecule cysteine protease inhibitor. *J Immunol* 180(12): 7989–8003. (WB)

STEMCELL TECHNOLOGIES INC.'S QUALITY MANAGEMENT SYSTEM IS CERTIFIED TO ISO 13485 MEDICAL DEVICE STANDARDS.

Copyright © 2015 by STEMCELL Technologies Inc. All rights reserved including graphics and images. STEMCELL Technologies & Design, STEMCELL Shield Design, Scientists Helping Scientists, EasySep, and NeuroCult are trademarks of STEMCELL Technologies Inc. All other trademarks are the property of their respective holders. Alexa Fluor® is a registered trademark of Life Technologies Corporation. This product is licensed for internal research use only and its sale is expressly conditioned on the buyer not using it for manufacturing, performing a service, or medical test, or otherwise generating revenue. For use other than research, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@lifetech.com. While STEMCELL has made all reasonable efforts to ensure that the information provided by STEMCELL and its suppliers is correct, it makes no warranties or representations as to the accuracy or completeness of such information.