

## Antibodies

### Mouse IgG2b, kappa Isotype Control Antibody, Clone MPC-11, Alexa Fluor® 488

Mouse monoclonal IgG2b, kappa isotype control antibody, Alexa Fluor® 488-conjugated

Catalog #60072AD

100 tests 5 µL/test



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## Product Description

The MPC-11 antibody (IgG2b, 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 myeloma cell line secreting the MPC-11 antibody was derived from the transplantable Merwin Plasmacytoma-11 cell line, which was induced by implantation of a plastic diffusion chamber into a BALB/c mouse. This product 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: | IgG2b Isotype Control |
| Alternative Names:   | Not applicable        |
| Gene ID:             | Not applicable        |
| Species Reactivity:  | Not applicable        |
| Host Species:        | Mouse (BALB/c)        |
| Clonality:           | Monoclonal            |
| Clone:               | MPC-11                |
| Isotype:             | IgG2b, kappa          |
| Immunogen:           | Not applicable        |
| Conjugate:           | Alexa Fluor® 488      |

## Applications

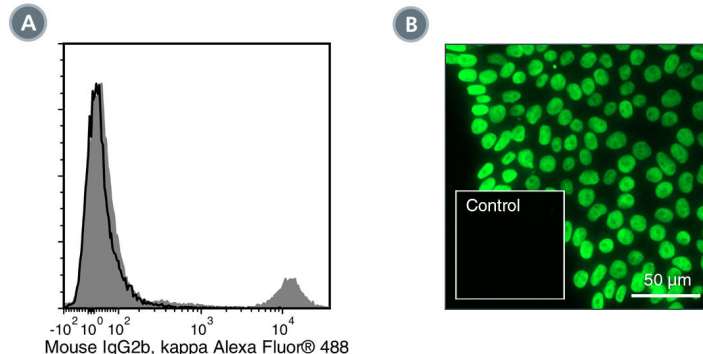
|                       |                                                                                                                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Verified:             | FC                                                                                                                                                                                                                              |
| Reported:             | FC                                                                                                                                                                                                                              |
| 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 and 0.2% (w/v) bovine serum albumin                                                                                                                             |
| Purification:          | The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 488 under optimal conditions.                                                                                                                |
| 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 <a href="mailto:techsupport@stemcell.com">techsupport@stemcell.com</a> . |
| Directions for Use:    | The suggested use of this antibody is at concentrations comparable to those of the specific antibody of interest.                                                                                                                  |

## Data



(A) Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs) labeled with Mouse IgG2b, kappa Isotype Control Antibody, Clone MPC-11, Alexa Fluor® 488 (solid line histogram). Filled histogram shows labeling with a mouse IgG2b, kappa positive control antibody (Anti-Human CD20 Antibody, Clone 2H7, Alexa Fluor® 488; Catalog #60008AD).

(B) Human embryonic stem (ES) cells were cultured with TeSR™-E8™ (Catalog #05940) on glass coverslips coated with Vitronectin XF™ (Catalog #07180), then fixed and stained with Mouse IgG2b, kappa Isotype Control Antibody, Clone MPC-11, Alexa Fluor® 488 (inset) or with a positive control antibody of the same isotype, Anti-Human OCT4 (OCT3) Antibody, Clone 3A2A20, Alexa Fluor® 488 (Catalog #60093AD; green).

## 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](http://www.stemcell.com/antibodies) or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

## References

1. Jafari M et al. (2014) Activities of transmitted/founder and chronic clade B HIV-1 Vpu and a C-terminal polymorphism specifically affecting virion release. *J Virol* 88(9): 5062–78. (FC)
2. Le Saout C et al. (2014) Chronic exposure to type-I IFN under lymphopenic conditions alters CD4 T cell homeostasis. *PLoS Pathog* 10(3): e1003976. (FA)
3. Reynolds A. E. et al. (2014) Natural IgM is produced by CD5- plasma cells that occupy a distinct survival niche in bone marrow. *J Immunol* 194(1): 231–42. (FC)
4. Wolpert F et al. (2014) A disintegrin and metalloproteinases 10 and 17 modulate the immunogenicity of glioblastoma-initiating cells. *Neuro Oncol* 16(3): 382–91. (FC)
5. Berger V et al. (2013) An anti-TNFR1 scFv-HSA fusion protein as selective antagonist of TNF action. *Protein Eng Des Sel* 26(10): 581–87. (FC)
6. Zhou H et al. (2013) Fibrinogen-specific antibody induces abdominal aortic aneurysm in mice through complement lectin pathway activation. *Proc Natl Acad Sci USA* 110(46): E4335–44. (FA, IHC)
7. 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)
8. Der-Petrossian M et al. (2011) Dermal infiltrates of cutaneous T-cell lymphomas with epidermotropism but not other cutaneous lymphomas are abundant with langerin + dendritic cells. *J Eur Acad Dermatol Venereol* 25(8): 922–27. (IF, IHC)
9. 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. (FC, WB)
10. Spetz A et al. (2008) IgG regulates the CD1 expression profile and lipid antigen-presenting function in human dendritic cells via FcγRIIIa. *Blood* 111(10): 5037–46. (FA/Blocking)
11. Day CL et al. (2006) PD-1 expression on HIV-specific T cells is associated with T-cell exhaustion and disease progression. *Nature* 443(7106): 350–54. (FA/Blocking)
12. Kumamoto T et al. (1999) Human dendritic cells express the thrombopoietin receptor, c-Mpl. *Br J Haematol* 105(4): 1025–33. (FC, ICC)

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