Antibodies

Mouse IgG1, kappa Isotype Control Antibody, Clone X40, PE

Mouse monoclonal IgG1, kappa isotype control antibody, PE-conjugated

Catalog #60120PE 100 Tests 20 µL/test

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Product Description

The X40 antibody (IgG1, 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 X40 antibody is derived from the hybridization of Sp2/0-Ag 14 mouse myeloma cells with spleen cells from BALB/c mice immunized with keyhole limpet hemocyanin (KLH). The antibody reacts specifically with KLH, an antigen not expressed on human cells or human cell lines.

Target Antigen Name:	IgG1 Isotype Control
Alternative Names:	Not applicable
Gene ID:	Not applicable
Species Reactivity:	Not applicable
Host Species:	Mouse (BALB/c)
Clonality:	Monoclonal
Clone:	X40
Isotype:	IgG1, kappa
Immunogen:	Keyhole limpet hemocyanin
Conjugate:	PE

Applications

Verified:	FC
Reported:	FC

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

Properties

Formulation:	Phosphate-buffered saline containing 0.1% sodium azide and gelatin
Purification:	The antibody was purified by column chromatography.
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:	For flow cytometry the suggested use of this antibody is 20 µL per 1 x 10^6 cells in 100 µL volume. It is recommended that the antibody be titrated for optimal performance for each application.

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

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2. Burbano C et al. (2014) Modulatory effects of CD14+CD16++ monocytes on CD14++CD16- monocytes: A possible explanation of monocyte alterations in systemic lupus erythematosus. Arthritis Rheumatol (Hoboken, NJ) 66(12): 3371–81. (FC)
3. Carlsten M et al. (2009) Primary human tumor cells expressing CD155 impair tumor targeting by down-regulating DNAM-1 on NK cells. J Immunol 183(8): 4921–30. (FC)
4. Carlsten M et al. (2007) DNAX accessory molecule-1 mediated recognition of freshly isolated ovarian carcinoma by resting natural killer cells. Cancer Res 67(3): 1317–25. (FC)
5. Miralles GD et al. (1998) CD34+CD38-lin- cord blood cells develop into dendritic cells in human thymic stromal monolayers and thymic nodules. J Immunol 160(7): 3290–8. (FC)

Please refer to the Safety Data Sheet (SDS) for hazard information.