Anti-Dextran Antibody, Clone DX1, FITC

Antibodies

Mouse monoclonal IgG1 antibody against dextran, FITC-conjugated

Catalog #60026FI	100 Tests	20 µL/test
#60026FI.1	25 Tests	20 µL/test

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

The DX1 antibody reacts with dextran, a natural polysaccharide consisting of linear chains of alpha-1,6-linked D-glucopyranose residues with short side chains (mostly 1 - 2 glucose units) 1,3- or 1,4-linked to the backbone of the biopolymer. Dextran has several uses as an additive in food, in lacquers, as a plasma volume expander, and as a coating for particles used in bioimaging or cell separation applications. The DX1 antibody was raised against isomaltotetraose (four sugar units in length) but binds better to longer polymer chains. It is also known to bind to amino-dextran, though with lower affinity. This antibody can be used to detect cells labelled with dextran-coated nanoparticles during StemSep™ and EasySep™ cell separation procedures or for other applications that require the detection of dextran.

Target Antigen Name:	Dextran
Alternative Names:	Not applicable
Gene ID:	Not applicable
Species Reactivity:	Not applicable
Host Species:	Mouse (C58/J)
Clonality:	Monoclonal
Clone:	DX1
Isotype:	IgG1, kappa
Immunogen:	Stearyl-isomaltotetraose
Conjugate:	FITC

Applications

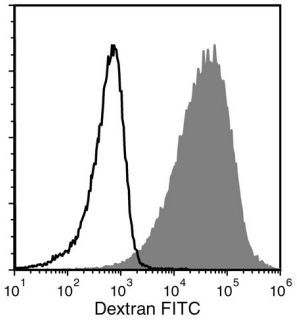
Verified:	FC
Reported:	FA, FC, ICC, IF
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Human T Cell Enrichment Kit (Catalog #19051) and EasySep™ Human CD4+ T Cell Enrichment Kit (Catalog #19052).

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% (w/v) sodium azide and < 0.1% (w/v) bovine serum albumin
Purification:	The antibody was purified by affinity chromatography and conjugated with FITC 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 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 or per 100 µL of whole blood. It is recommended that the antibody be titrated for optimal performance for each application.

Data



Flow cytometry analysis of C57BL/6 mouse bone marrow cells processed with the EasySep™ Mouse CD11b Positive Selection Kit (Catalog #18770), and labeled with Anti-Dextran, Clone DX1, FITC (filled histogram) or a mouse IgG1, kappa FITC isotype control antibody (solid line histogram)

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. Kruttwig K et al. (2010) Development of a three-dimensional in vitro model for longitudinal observation of cell behavior: monitoring by magnetic resonance imaging and optical imaging. Mol Imaging Biol 12(4): 367–76. (ICC, IF)