Anti-Dextran Antibody, Clone DX1

Antibodies

Mouse monoclonal IgG1 antibody against dextran, unconjugated

Catalog #60026 100 µg 0.5 mg/mL

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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:	Unconjugated

Applications

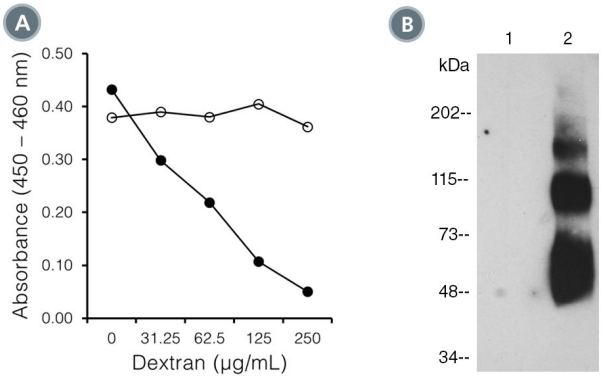
Verified:	CellSep, ELISA, WB
Reported:	FA, WB
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Human T Cell Enrichment Kit (Catalog #19051) and EasySep™ Human CD4+ T Cell Enrichment Kit (Catalog #19052).

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
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Addition of 0.1% sodium azide (final) is recommended once the vial has been opened. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use:	It is recommended that the antibody be titrated for optimal performance for each application.

Data



(A) Competitive ELISA showing effect of free dextran (filled circles) or sucrose (empty circles) on the binding of Anti-Dextran Antibody, Clone DX1 to immobilized dextran.
(B) Western blot analysis of a dextran-conjugated carrier protein with Anti-Dextran Antibody, Clone DX1. Lane 1, unconjugated carrier protein (negative control); lane 2, carrier protein after conjugation to dextran.

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)