Technical Data Sheet Purified Mouse Anti-Human CD15s

Product Information

Material Number:	551344
Alternate Name:	Sialyl Lewis x
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	CSLEX1
Isotype:	Mouse IgM, ĸ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Anti-Sialyl-Le[x] monoclonal antibody (clone CSLEX1) is specific for the α 2-3 sialosylated form of lacto-N-fucopentaose III, sialyl Lex (Sle[x]). Sle[x] is expressed on granulocytes, monocytes and both normal and tumor cells of diverse origin. It has been shown to be a ligand for both endothelial leukocyte adhesion molecule-1 (ELAM-1 or E-selectin), and granule membrane protein-140 (GMP-140 or P-selectin).

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4° C.

Application Notes

Application					
Flow cytometry	Routinely Tested				
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Recommended Assay Procedure:

Functional Studies: Anti-Sialyl-Lex monoclonal antibody (clone CSLEX1) inhibits HL-60 or LEC-11 cell adhesion to human umbilical vein endothelial cells (HUVECs), HL-60 cell adhesion to ELAM-1-coated plates. It inhibits PMN and HL-60 cell adhesion to thrombin-activated platelets, or HL-60 and NewLewis CHO cell binding to GMP-140-coated plates. We recommend to do dialysis to remove the azide for functional studies.

Immunostaining: Anti-Sialyl-Le[x] monoclonal antibody (clone CSLEX1) can be used in immunoperoxidase staining of formalin-fixed frozen tissue sections, and immunogold staining of PMN for transmission electron microscopy. This monoclonal antibody can also be used to stain cells for indirect immunofluorescence microscopy.

Immunoblotting: Anti-Sialyl-Le[x] monoclonal antibody (clone CSLEX1) can be used to detect SLex in PMN lysates by Western blotting.

Enzyme-linked immunosorbent assay (ELISA)/Radioimmunoassay (RIA): Anti-Sialyl-Le[x] monoclonal antibody (clone CSLEX1) can be used to detect Slex on intact cells and in membrane fractions from PMN and tumor cells. This monoclonal antibody can also be used in solid-phase RIA.

Suggested Companion Products

Catalog Number	Name	Size	Clone
555581	Purified Mouse IgM, ĸ Isotype Control	0.1 mg	G155-228
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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- 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
- 4. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.

References

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