

Technical Data Sheet

Purified NA/LE Mouse Anti-Rat CD54

Product Information

Material Number:	554966
Alternate Name:	ICAM-1
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	1A29
Immunogen:	Rat HEV-Derived Cell Line Ax
Isotype:	Mouse (BALB/c) IgG1, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2 μ m sterile filtered. Endotoxin level is ≤ 0.01 EU/ μ g (≤ 0.001 ng/ μ g) of protein as determined by the LAL assay.

Description

The 1A29 antibody reacts with ICAM-1 (CD54), an 85 kDa surface glycoprotein expressed on vascular endothelium in lymphoid tissues, thymic stromal cells, peripheral blood monocytes, peritoneal macrophages and mast cells, dendritic cells, and weakly on peripheral lymphocytes and thymocytes. ICAM-1 is a ligand for LFA-1 (CD11a/CD18) and Mac-1 (CD11b/CD18). Its expression is upregulated on activated lymphocytes and endothelial cells. 1A29 mAb inhibits PMA-induced aggregation of PHA-stimulated splenic blasts, as well as the adhesion of mitogen-stimulated blasts to HEV-derived endothelial cells and purified ICAM-1. It has also been reported that 1A29 antibody can inhibit leukocyte infiltration in vivo systems, blocks induction of experimental allergic encephalomyelitis, and reduces NK-cell adhesion to tumor cells. The effects of in vivo administration of the 1A29 monoclonal antibody have been thoroughly investigated.

Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

Flow cytometry	Routinely Tested
Immunoprecipitation	Reported
Blocking	Reported
Immunofluorescence	Reported
Immunohistochemistry	Reported

Suggested Companion Products

Catalog Number	Name	Size	Clone
553447	Purified NA/LE Mouse IgG1 κ Isotype Control	0.5 mg	107.3
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

Product Notices

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

References

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