Datasheet for ABIN2689360

anti-L-Selectin antibody

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Overview

Quantity:	0.5 mg
Target:	L-Selectin (SELL)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This L-Selectin antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Blocking Reagent (BR), Cytotoxicity Test (CyTox)

Product Details

Brand:	BD Pharmingen™
Immunogen:	C3H/eb mouse B lymphoma 38C-13
Clone:	MEL
Isotype:	IgG2a kappa
Characteristics:	The MEL-14 antibody reacts with CD62L (L-selectin), a 95 kDa (on neutrophils) or 74 kDa (on lymphocytes) receptor with lectin-like and Epidermal Growth Factor-like domains. In the mouse, L-selectin is detected on most thymocytes, with the highest levels of expression on an immunocompetent subset and a population of dividing progenitor cells, and on peripheral leukocytes, including subsets of B and T lymphocytes, neutrophils, monocytes, and eosinophils. This member of the selectin adhesion molecule family appears to be required for lymphocyte

Product Details

	homing to peripheral lymph nodes and to contribute to neutrophil emigration at inflammatory sites. L-selectin is rapidly shed from lymphocytes and neutrophils upon cell activation, metalloproteinases may mediate the release of CD62L ectodomains from the cell surface. The level of CD62L expression, along with other markers, distinguishes naive, effector, and memory T cells. L-selectin binds to sialytaed oligosaccharide determinants on high endothelial venules (HEV) in peripheral lymph nodes. In vitro studies have demonstrated that CD34, GlyCAM-1, and MAdCAM-1, all recognized by mAb MECA-79 (anti-mouse PNAd Carbohydrate Epitope, Cat. No. 553863), may be ligands for CD62L. MEL-14 mAb blocks in vitro binding of lymphocytes to peripheral lymph node HEV and inhibits in vivo lymphocyte extravasation into peripheral lymph nodes and late stages of leukocyte rolling. This antibody is routinely tested by flow cytometric analysis. Other applications were tested during antibody development only or reported in the literature. Two-color analysis of CD62L expression on spleen lymphocytes. BALB/c splenocytes were simultaneously stained with purified MEL-14 (right panel) and PE-conjugated anti-mouse CD3e 145-2C11 (Cat. No. 553063/553064, both panels). Flow cytometry was performed on a BD FACScan™ flow cytometry system. BD Pharmingen™ Purified Rat Anti-Mouse CD62L - Purified - Clone MEL-14 - Isotype Rat IgG2a, κ - Reactivity Ms - 0.5 mg
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	L-Selectin (SELL)
Alternative Name:	CD62L (SELL Products)
Target Type:	Chemical
Background:	Synonyms: L-selectin, LECAM-1, Ly-22

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Concentration:	0.5 mg/mL

Handling

Buffer:	Aqueous buffered solution containing ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C.

Publications

Product cited in:

Lanzavecchia, Sallusto: "Dynamics of T lymphocyte responses: intermediates, effectors, and memory cells." in: **Science (New York, N.Y.)**, Vol. 290, Issue 5489, pp. 92-7, (2000) (PubMed).

Cerwenka, Carter, Reome, Swain, Dutton: "In vivo persistence of CD8 polarized T cell subsets producing type 1 or type 2 cytokines." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 161, Issue 1, pp. 97-105, (1998) (PubMed).

Peschon, Slack, Reddy, Stocking, Sunnarborg, Lee, Russell, Castner, Johnson, Fitzner, Boyce, Nelson, Kozlosky, Wolfson, Rauch, Cerretti, Paxton, March, Black: "An essential role for ectodomain shedding in mammalian development." in: **Science (New York, N.Y.)**, Vol. 282, Issue 5392, pp. 1281-4, (1998) (PubMed).

Seibold, Seibold-Schmid, Cong, Shu, McCabe, Weaver, Elson: "Regional differences in L-selectin expression in murine intestinal lymphocytes." in: **Gastroenterology**, Vol. 114, Issue 5, pp. 965-74 , (1998) (PubMed).

Yang, Mizuno, Hellström, Chen: "B7-negative versus B7-positive P815 tumor: differential requirements for priming of an antitumor immune response in lymph nodes." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 158, Issue 2, pp. 851-8, (1997) (PubMed).

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