PerCP/Cy5.5 anti-human/mouse Cutaneous Lymphocyte Antigen (CLA)

Catalog # / Size:	2206570 / 100 tests 2206565 / 25 tests	A .
Clone:	HECA-452	MX.
Isotype:	Rat IgM, κ	human peripheral blood lymphocytes were stained with CLA (clone HECA-452) PerCP/Cy5.5 (filled histogram) or rat IgM, κ PerCP/Cy5.5 isotype control (open histogram).
Reactivity:	Human,Mouse	
Preparation:	The antibody was purified by affinity chromatography and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	
Workshop Number:	V S075	
Concentration:	Lot-specific	

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
	* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
Application Notes:	The HECA-452 antibody cross-reacts with mouse skin homing lymphocytes4. Treatment of activated HUVEC cells with HECA-452 antibody inhibits lymphocyte adhesion. Additional reported applications (for the relevant formats) include: blocking of lymphocyte binding to E-selectin3, and immunohistochemistry ^{1,2} of acetone-fixed frozen sections and formalin-fixed paraffin-embedded sections.
Application References:	 Duijvestijn AM, <i>et al.</i> 1988. <i>Am. J. Pathol.</i> 130:147. (IHC) Picker LJ, <i>et al.</i> 1991. <i>Nature</i> 349:796. (IHC) Berg EL, <i>et al.</i> 1991. <i>J. Exp. Med.</i> 174:1461. Borges E, <i>et al.</i> 1997. <i>J. Biol. Chem.</i> 272:28786. Ren YL, <i>et al.</i> 2012. <i>Am J Clin Pathol.</i> 138:435. <u>PubMed</u>
Description:	Cutaneous lymphocyte antigen (CLA) is a 140 kD homodimer protein recognized by a unique mAb, HECA-452. It is expressed on T cells in skin, subsets of peripheral blood memory T cells, NK cells, memory B cells and dendritic cells as well as on monocytes, granulocytes, and activated endothelial cells. CLA is a carbohydrate epitope of sialic acid and fucose-modified P-selectin glycoprotein ligand-1 (PSGL-1), a surface glycoprotein expressed on the majority of peripheral blood leukocytes. CLA is a ligand for E-selectin, P-selectin, and L-selectin. It plays

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com a role in memory lymphocyte homing, tethering, and rolling.

- Antigen1. Picker LJ, et al. 1990. Am. J. Pathol. 136:1053.References:2. Berg EL, et al. 1991. J. Exp. Med. 174:1461.
3. Fuhlbrigge RC, et al. 1997. Nature 389:978.
 - 4. Tu L, *et al.* 1999. *J*