Technical Data Sheet

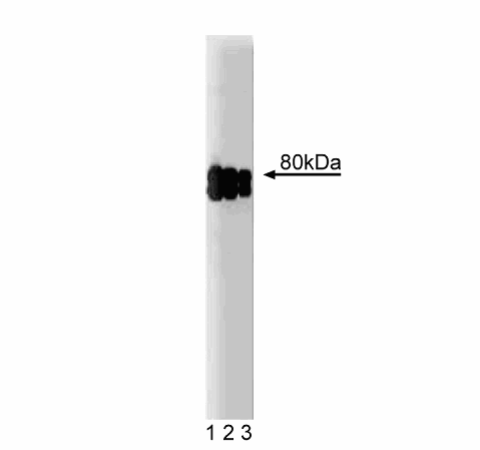
Purified Mouse Anti-Human CLA-1

Product Information

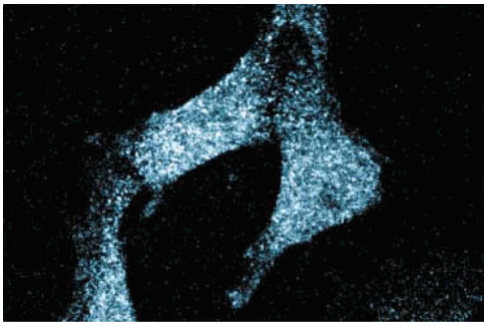
Material Number:	**610883**
Alternate Name:	CD36 and LIMPII Analogous-1
Size:	150 µg
Concentration:	250 µg/ml
Clone:	25/CLA-1
Immunogen:	Human CLA-1 aa. 104-294
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human
Target MW:	80 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

CLA-1 (CD36 and LIMPII Analogous-1) is member of a novel gene family that includes CD36, LIMPII, and SR-BI. CD36 is a cell surface glycoprotein that binds to collagen type I and thrombospondin. LIMPII (lysosomal integral membrane protein II), as its name suggests, is expressed on the membrane of lysosomes. SR-BI (scavenger receptor type B class I) is involved in the selective uptake of cholesterol esters. These proteins include two membrane-anchoring regions, two short cytoplasmic tails, and a large extracellular/luminal domain. CLA-1 mRNA is detected in a wide range of tissues including adrenal glands, liver, and testis. Its expression and similarity with other family members suggest it may play a role in HDL metabolism. However, identification of the CLA-1 receptor on monocytes indicates additional CLA-1 functions in leukocytes.



Western blot analysis of CLA-1 on a HeLa cell lysate (Human cervical epitheloid carcinoma; ATCC CCL-2.2). *Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the mouse anti-human CLA-1 antibody.*



Immunofluorescence staining of human endothelial cells.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20°C.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

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Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611449	HeLa Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	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.
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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Acton S, Rigotti A, Landschulz KT, Xu S, Hobbs HH, Krieger M. Identification of scavenger receptor SR-BI as a high density lipoprotein receptor. *Science.* 1996; 271(5248):518-520.(Biology)

Calvo D, Vega MA. Identification, primary structure, and distribution of CLA-1, a novel member of the CD36/LIMPII gene family. *J Biol Chem.* 1993; 268(25):18929-18935.(Biology)

Kozarsky KF, Donahee MH, Rigotti A, Iqbal SN, Edelman ER, Krieger M. Overexpression of the HDL receptor SR-BI alters plasma HDL and bile cholesterol levels. *Science.* 1997; 387(6631):414-417.(Biology)

Lasley RD, Narayan P, Uittenbogaard A, Smart EJ. Activated cardiac adenosine A(1) receptors translocate out of caveolae. *J Biol Chem.* 2000; 275(6):4417-4421. (Biology: Western blot)