Human ACLP Antibody

Monoclonal Mouse IgG_1 Clone # 590831

Catalog Number: MAB6425

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ACLP in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse ACLP is observed.
Source	Monoclonal Mouse IgG_1 Clone # 590831
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human ACLP Glu345-Phe1158 Accession # Q8IUX7
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

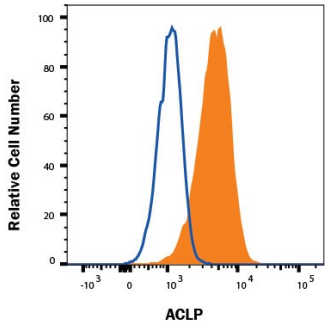
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25 µg/10^6 cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

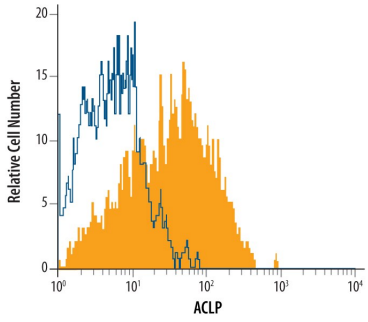
DATA

Intracellular Staining by Flow Cytometry



Detection of ACLP in Molt-4 Human Cells by Flow Cytometry. Molt-4 human human cell line was stained with Human ACLP Monoclonal Antibody (Catalog # MAB6425, filled histogram) or isotype control antibody (Catalog # MAB002, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG F(ab')2Secondary Antibody (Catalog # F0102B). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

Intracellular Staining by Flow Cytometry



Detection of ACLP in HASMC Human Cells by Flow Cytometry. HASMC human human aortic smooth muscle cells was stained with Human ACLP Monoclonal Antibody (Catalog # MAB6425, filled histogram) or isotype control antibody (Catalog # Catalog # MAB002, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG F(ab')$_2$Secondary Antibody (Catalog # Catalog # F0102B). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Aortic carboxypeptidase-like protein (ACLP), also known as adipocyte enhancer binding protein (AEBP1), is a 175 kDa molecule that contains a discoidin-like domain (aa 383-540) and a peptidase-like domain (aa 560-942). It is expressed in proliferating adipocytes and represses the transcription of FABP4. ACLP promotes macrophage cholesterol retention, the formation of foam cells, and inflammatory responses. It is also an extracellular matrix-associated protein found in fibrotic tissues including vascular smooth muscle. An alternately spliced isoform lacks aa 1-457 and has an altered sequence at its N-terminus. Over aa 345-1158, human ACLP shares 88% aa sequence identity with mouse and rat ACLP.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449