Human Alkaline Phosphatase/ALPL Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # B4-78

Catalog Number: FAB1448G
100 Tests, 25 Tests

DESCRIPTION

Species Reactivity	Human
Specificity	Detects liver, bone and kidney Alkaline Phosphatase/ALPL from human tissue (2).
Source	Monoclonal Mouse IgG_1 Clone # B4-78
Purification	Protein A or G purified from ascites
Immunogen	Human liver, bone and kidney-derived Alkaline Phosphatase/ALPL
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

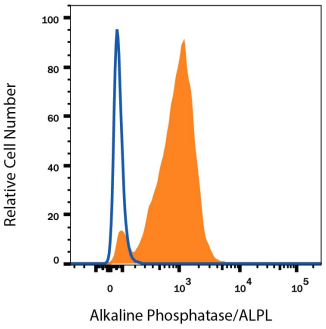
APPLICATIONS

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
Flow Cytometry	5 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of Alkaline Phosphatase/ALPL in BG01V Human Cells by Flow Cytometry. BG01V human embryonic stem cells were stained with Mouse Anti-Human Alkaline Phosphatase/ALPL Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # FAB1448G, filled histogram) or isotype control antibody (Catalog # IC002G, open histogram). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

The liver, bone and kidney Alkaline Phosphatase, also known as tissue non-specific Alkaline Phosphatase and ALPL, is a Glycosyl Phosphatidylinositol (GPI) anchored protein. Human liver/bone/kidney Alkaline Phosphatase shares 90% amino acid sequence homology with the mouse enzyme (1, 3).

References:

1. Lawson, G.M. *et al.* (1985) Clin. Chem. **31**:381.
2. Gronthos, S. *et al.* (1999) J. Bone Miner. Res. **14**:47.
3. Dorheim, M.A. *et al.* (1993) J. Cell Physiol. **154**:317.

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