

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 hybridoma culture supernatant
Immunogen	Human liver, bone and kidney-derived Alkaline Phosphatase/ALPL
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

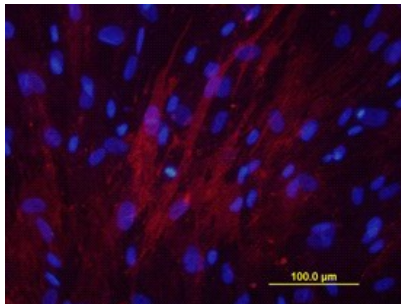
APPLICATIONS

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	2.5 µg/10 ⁶ cells	Human peripheral blood granulocytes
Immunocytochemistry	8-25 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	Immersion fixed paraffin-embedded sections of human intestine

DATA

Immunocytochemistry



Alkaline Phosphatase/ALPL in Human Osteoblasts.

Alkaline Phosphatase/ALPL was detected in immersion fixed differentiated human osteoblasts using Human/Mouse/Rat Alkaline Phosphatase/ALPL Biotinylated Monoclonal Antibody (Catalog # BAM1448) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Streptavidin (red; Catalog # NL999) and counterstained with DAPI (blue). View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 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

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

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.