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30-2482: Anti-TNAP Antibody (Clone : W8B2B10)

Clonality :	Monoclonal
Clone Name :	W8B2B10
Application :	ICC
Reactivity :	Human
Gene :	ALPL
Gene ID :	249
Format :	Purified
Alternative Name :	Tissue Non-specific Alkaline Phosphatase, MSCA-1, liver/bone/kidney alkaline phosphatase,alkaline phosphatase, biomineralization associated
Isotype :	Mouse IgG1
Immunogen Information :	WERI-RB-1 retinoblastoma cell line

Description

Tissue non-specific alkaline phosphatase (TNAP), also known as liver/bone/kidney alkaline phosphatase, or MSCA-1 (mesenchymal stem cell antigen 1) is a selective marker for the prospective isolation of bone marrow-derived mesenchymal stem cells and mesenchymal stem-like cells. It is expressed at high levels in liver, bone, kidney, or endometrium, as well as on embryonic stem cells (ESCs). TNAP also plays a role in bone mineralization. Mutations in TNAP gene are associated with hypercalcemia and skeletal defects (hypophosphatasia).
Specificity : The mouse monoclonal antibody W8B2B10 recognizes TNAP (tissue non-specific alkaline phosphatase), an ectoenzyme expressed mainly on embryonic stem cells, liver, bone, and kidney cells. This antibody is suitable for characterization of bone marrow-derived MSCs, iPSCs, and ESCs.

Product Info

Amount :	0.1 mg
Purification :	Purified by protein-A affinity chromatography
Content :	1 mg/ml Formulation : Phosphate buffered saline (PBS) solution with 15 mM sodium azide
Storage condition :	Store at 2-8°C. Do not freeze.

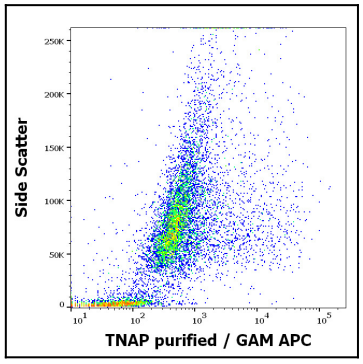


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood spiked with HeLa cells stained using anti-TNAP (W8B2B10) purified antibody (concentration in sample 0.3 µg/ml).

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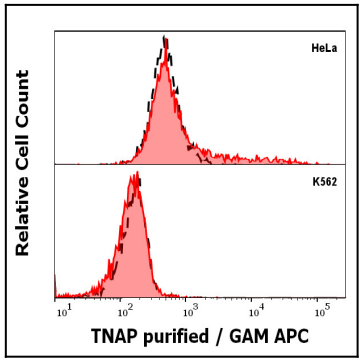


Figure 2: Anti-Hu TNAP purified antibody (clone W8B2B10) specificity verification by flow cytometry Anti-Hu TNAP purified antibody (concentration in sample 0.3 µg/ml, GAM APC, red-filled histogram) binds specifically to TNAP on subpopulation of HeLa cells (upper panel), but not to surface of K562 cells (lower panel). Level of non-specific binding was assessed using cells unstained by primary antibody (GAM APC, black-dashed histogram).

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