

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

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

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

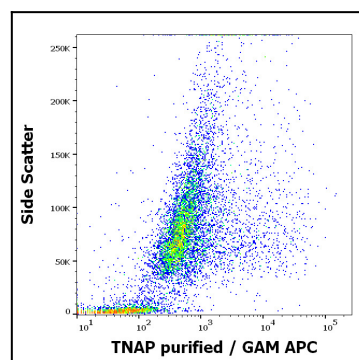


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood spiked with HeLa cells stained using anti-TNAP (W8B2B10) purified antibody (concentration in sample 0.3 µg/ml).

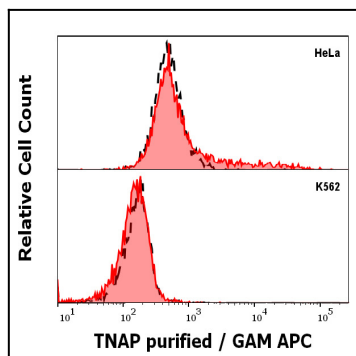


Figure 2: Anti-Hu TNAP purified antibody (clone W8B2B10) specificity verification by flow cytometry Anti-Hu TNAP purified antibody (concentration in sample 0.3  $\mu$ g/ml, GAM APC, red-filled histogram) binds specifically to TNAP on subpopulation of HeLa cells (upper panel), but not to surface of K562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