

## Alkaline Phosphatase (Tissue-Nonspecific) Antibody

Mouse Monoclonal Antibody [Clone ALPL/597]

Catalog No	Format	Size
249-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
249-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
249-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

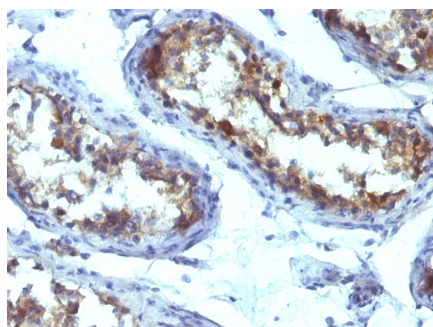
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

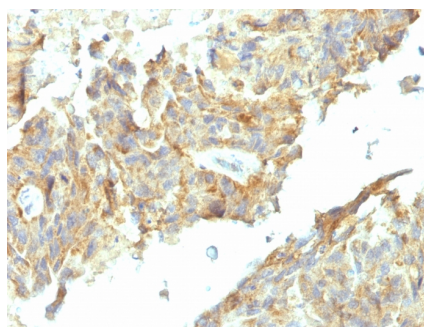
<b>Clone</b>	ALPL/597
<b>Gene Name</b>	ALPL
<b>Immunogen</b>	Recombinant human ALPL protein
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	55kDa
<b>Cellular Localization</b>	Cell membrane, Extracellular vesicle membrane, Mitochondrion intermembrane space, Mitochondrion membrane
<b>Species Reactivity</b>	Cow, Human
<b>Positive Control</b>	Intestine.

*\*Optimal dilution for a specific application should be determined.*

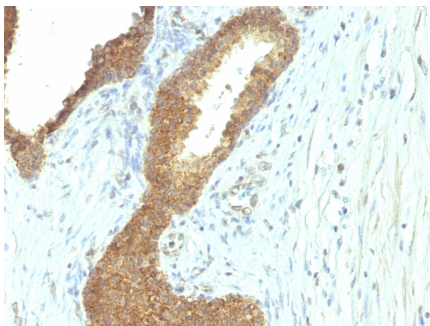
### Product Images for Alkaline Phosphatase (Tissue-Nonspecific) Antibody



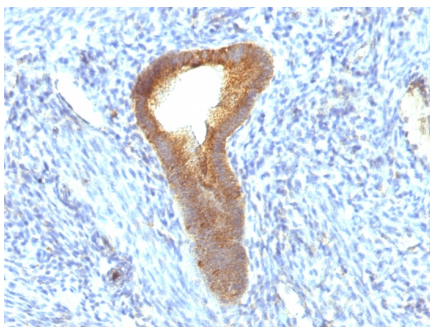
Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with Alkaline Phosphatase Mouse Monoclonal Antibody (ALPL/597).



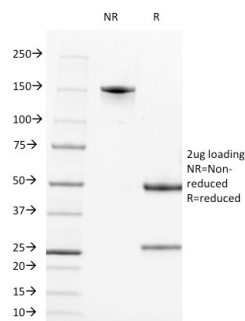
Formalin-fixed, paraffin-embedded human Ovarian Carcinoma stained with Alkaline Phosphatase Mouse Monoclonal Antibody (ALPL/597).



Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with Alkaline Phosphatase Mouse Monoclonal Antibody (ALPL/597).



Formalin-fixed, paraffin-embedded human Endometrial Carcinoma stained with Alkaline Phosphatase Mouse Monoclonal Antibody (ALPL/597).



SDS-PAGE Analysis of Purified Alkaline Phosphatase Mouse Monoclonal Antibody (ALPL/597). Confirmation of Purity and Integrity of Antibody.

### Specificity & Comments

There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue non-specific). The first three are located together on chromosome 2, while the tissue non-specific form is located on chromosome 1. The product of this gene is a membrane bound glycosylated enzyme that is not expressed in any particular tissue and is, therefore, referred to as the tissue-nonspecific form of the enzyme. The exact physiological function of the alkaline phosphatases is not known. A proposed function of this form of the enzyme is matrix mineralization; however, mice that lack a functional form of this enzyme show normal skeletal development. This enzyme has been linked directly to hypo-phosphatasia, a disorder that is characterized by hypercalcemia and includes skeletal defects.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Cardiovascular