

## Alkaline Phosphatase (Tissue-Nonspecific) Antibody

Mouse Monoclonal Antibody [Clone V17.1]

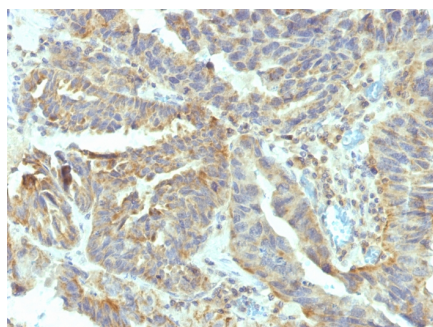
Catalog No	Format	Size
249-MSM2-P0	Purified Ab with BSA and Azide	200ug/ml
249-MSM2-P1	Purified Ab with BSA and Azide	200ug/ml
249-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide	1.0mg/ml

Applications	Tested Dillution
Flow Cytometry (Flow)	1-2ug/million cells
Immunofluorescence (IF)	1-3ug/ml
Immunohistochemistry (IHC)	1-2ug/ml

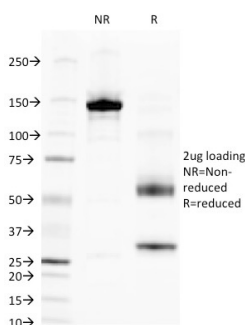
Product Details	
Clone	V17.1
Gene Name	ALPL
Immunogen	Bovine intestinal alkaline phosphatase
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	55kDa
Cellular Localization	Cell membrane, Extracellular vesicle membrane, Mitochondrion intermembrane space, Mitochondrion membrane
Species Reactivity	Cow, Human
Positive Control	Intestine.

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

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



Formalin-fixed, paraffin-embedded human Ovarian Carcinoma stained with Alkaline Phosphatase Mouse Monoclonal Antibody (V17.1).



SDS-PAGE Analysis of Purified Alkaline Phosphatase Mouse Monoclonal Antibody (V17.1). 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. The character of this disorder can vary, however, depending on the specific mutation since this determines age of onset and severity of symptoms. Alternatively spliced transcript variants, which encode the same protein, have been identified for this gene.

### Research Areas

Cardiovascular

### Known Applications & Suggested Dilutions

Flow Cytometry (1-2ug/million cells) | Immunofluorescence (1-2ug/ml) | Immunohistochemistry (Frozen) (1-2ug/ml for 30 minutes at RT) Optimal dilution for a specific application should be determined.

### 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.