# Alkaline Phosphatase (Tissue-Nonspecific) Antibody

Mouse Monoclonal Antibody [Clone V17.1]

| Catalog No | Format | Size |
|---|---|---|
| 249-MSM2-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 249-MSM2-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 249-MSM2-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

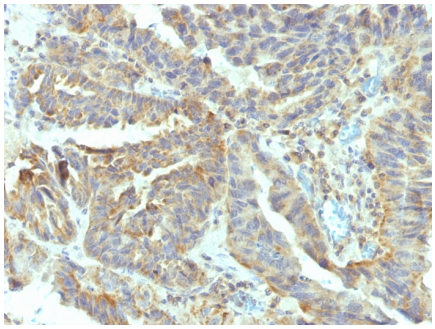
| Applications | Tested Dillution | Note |
|---|---|---|
| Flow Cytometry (Flow) | 1-2ug/million cells | |
| Immunofluorescence (IF) | 1-3ug/ml | |
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |

## Product Details

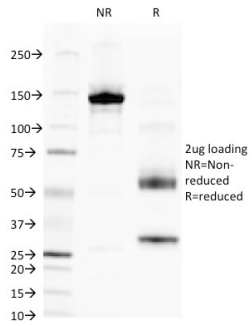
| | |
|---|---|
| **Clone** | V17.1 |
| **Gene Name** | ALPL |
| **Immunogen** | Bovine intestinal alkaline phosphatase |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG1 / Kappa |
| **Mol. Weight of Antigen** | 55kDa |
| **Cellular Localization** | Cell membrane, 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.

## 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

## Limitations and Warranty