

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human Alkaline Phosphatase/ALPP in direct ELISAs. In direct ELISAs, this antibody cross-reacts at 100% with recombinant human (rh) ALPPL2, but no cross-reactivity with rhAlkaline Phosphatase/ALPI is observed.                                                    |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 696128                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human Alkaline Phosphatase/ALPP<br>Ile23-Asp506<br>Accession # P05187                                                                                                                                                       |
| <b>Conjugate</b>          | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

Four distinct genes encode alkaline phosphatases (APs) in humans. The ALPP gene encodes the 67 kDa placental isozyme, also known as PLAP. In comparison, ALPI, ALPL, and ALPPL2 encode intestinal, liver/bone/kidney, and placental-like or germ cell APs, respectively. The placental alkaline phosphatase is a glycosyl phosphatidylinositol (GPI) anchored protein that is expressed on the cell surface as a homodimer. Human APs are ectopically expressed in several cancers, and their serum levels are useful tumor markers. Mature human Alkaline Phosphatase/ALPP shares 74% amino acid sequence homology with the mouse and rat enzymes.

#### PRODUCT SPECIFIC NOTICES

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