Catalog: OM626575

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# Alkaline Phosphatase [SA40-00]

Catalog: OM626575

☐ 100 µl

## Product profile

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| **Product name** | Alkaline Phosphatase [SA40-00] |
| **Antibody Type** | Primary Antibodies |
| **Product description** | Alkaline phosphatase (ALP) removes phosphate groups from the 5' end of DNA and RNA, and from prote ins. Most mammals have 4 different isozymes: placental, placental like, intestinal and non tissue specific ( found in liver, kidney and bone). Tissues with particularly high concentrations of ALP include the liver, bile ducts, placenta, and bone. Placental ALP is highly polymorphic, there are at least three common alleles. D amaged or diseased tissue releases enzymes into the blood, so serum ALP measurements can be abnor mal in many conditions, including bone disease and liver disease. |
| **Immunogen** | recombinant protein |

## Key Feature

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| **Clonality** | Monoclonal |
| **Isotype** | IgG |
| **Host Species** | Recombinant rabbit |
| **Tested Applications** | WB ,ICC ,IHC ,IP ,FC |
| **Species Reactivity** | Human Mouse Rat |
| **Concentration** | 1 mg/mL. |

## Target Information

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| **Alternative Names** | Alkaline phosphatase antibody Alkaline phosphatase placental antibody Alkaline phosphatase placental t ype antibody Alkaline phosphatase Regan isozyme antibody ALP antibody Alp1 antibody ALPP antibody FLJ61142 antibody Germ-cell alkaline phosphatase antibody nagao isozyme antibody OTTHUMP000001 64354 antibody PALP antibody Placental alkaline phosphatase 1 antibody placental heat-stable alkaline phosphatase antibody placental type antibody PLAP antibody PLAP-1 antibody PLAP1 antibody PPB1_H UMAN antibody |
| **Molecular Weight(MW)** | 57 kDa |

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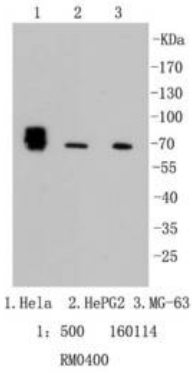
| **Cellular Localization** | Cell membrane |

## Database Links

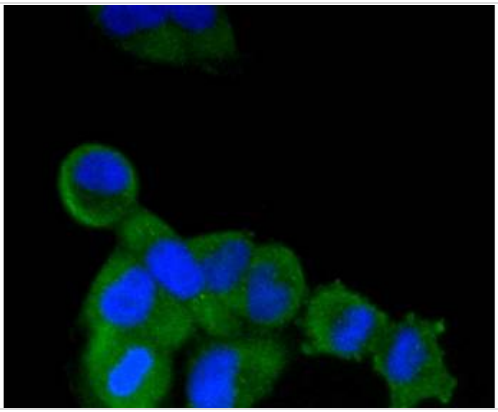
| | |
|---|---|
| **SwissProt ID** | P05186 |
| | P09242 |
| | P08289 |

## Application



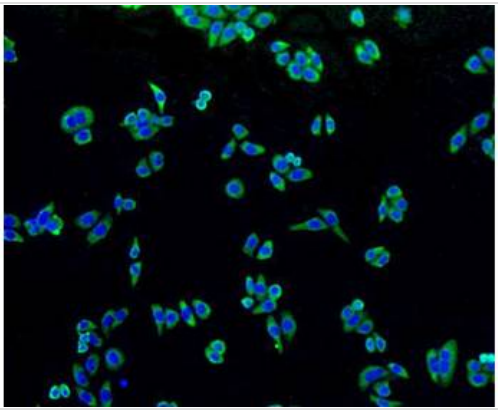

**Application**

Fig1: Western blot analysis of ALP on different cell lysates using anti-ALP antibody at 1/1,000 dilution. Positive control: Lane 1: Hela Lane 2: HepG2 Lane 3: MG-63



**Application**

Fig2: ICC staining ALP in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

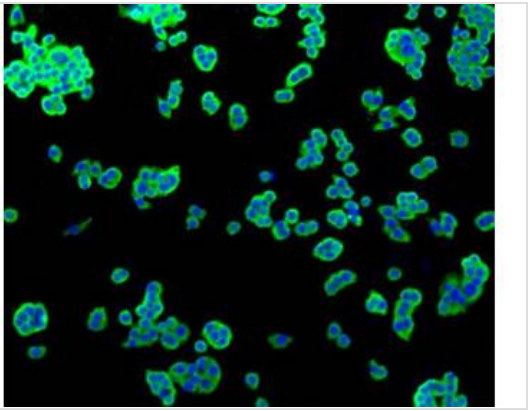


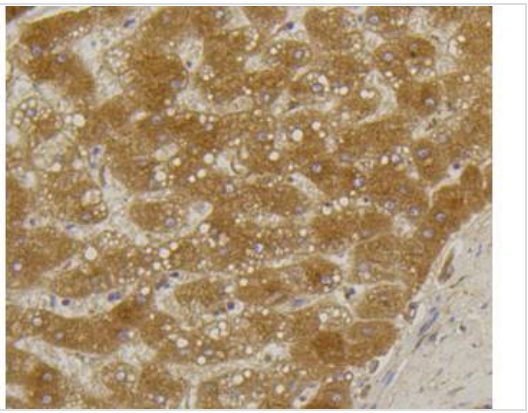
**Application**

Fig3: ICC staining ALP in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

**Application**

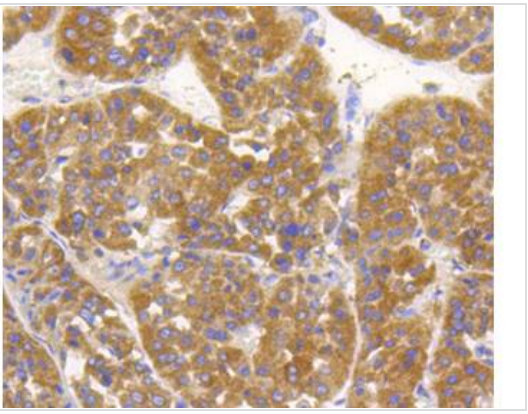
Fig4: ICC staining ALP in SW480 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





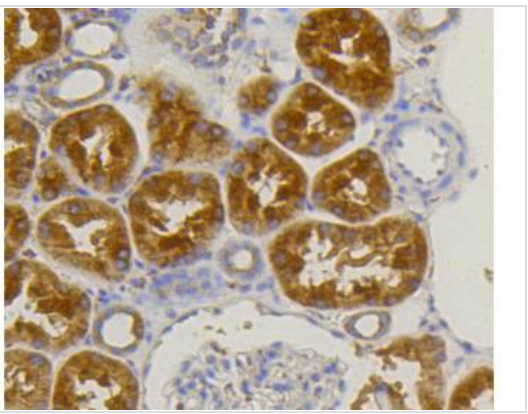
**Application**

Fig5: Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-ALP antibody. Counter stained with hematoxylin.



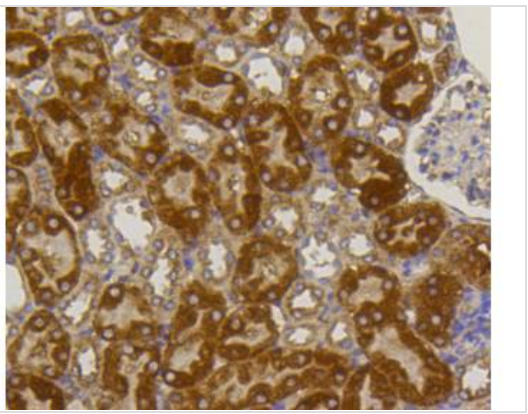
**Application**

Fig6: Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-ALP antibody. Counter stained with hematoxylin.



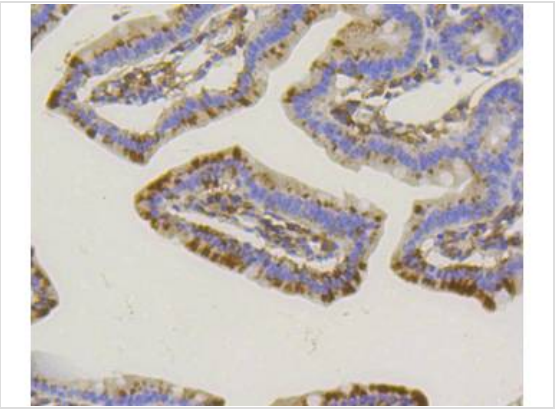
**Application**

Fig7: Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-ALP antibody. Counter stained with hematoxylin.



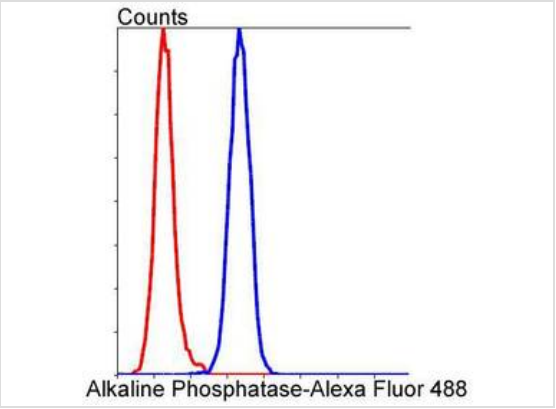
**Application**

Fig8: Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-ALP antibody. Counter stained with hematoxylin.



**Application**

Fig9: Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue using anti-ALP antibody. Counter stained with hematoxylin.




**Application**

Fig10: Flow cytometric analysis of Hela cells with ALP antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

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| **Positive Control** | SW480, MG-63, Hela, HepG2, mouse kidney tissue, human liver tissue, mouse small intestine tissue, human liver cancer tissue, human kidney tissue. |
| **Application Notes** | **WB**:1:1,000-1:5,000<br>**ICC**:1:50-1:200<br>**IHC**:1:50-1:200<br>**FC**:1:10-1:100 |

## Additional Information

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| **Form** | Liquid |
| **Storage Instructions** | Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles. |
| **Storage Buffer** | 1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide. |
| **Note** | The product is for research use only,not for use in diagnostic or therapeutic procedures. |

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