Datasheet: 0300-0578G

Description: SHEEP ANTI HUMAN ALKALINE PHOSPHATASE (BAP)
Specificity: ALKALINE PHOSPHATASE (BAP)
Other names: AP
Format: Purified
Product Type: Polyclonal Antibody
Isotype: Polyclonal IgG
Quantity: 1 ml

RRID AB_1100455

Applications
This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

<table>
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<tr>
<th>Target Species</th>
<th>Human</th>
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<td>Product Form</td>
<td>Purified IgG - liquid</td>
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Antiserum Preparation
Antisera to human alkaline phosphatase were raised by repeated immunisations of sheep with highly purified antigen. Purified IgG prepared by affinity chromatography on protein G.

Buffer Solution
Phosphate buffered saline

Preservative Stabilisers
0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations
IgG concentration 5.0mg/ml

Immunogen
Alkaline phosphatase from human bone

External Database Links
UniProt: P05186

Entrez Gene:
**Specificity**

Sheep anti Human alkaline phosphatase (Bap) antibody recognizes human bone alkaline phosphatase (BAP), a membrane-bound hydrolase enzyme expressed by osteoblast cells.

Alkaline phosphatase (AP) is a ubiquitously expressed enzyme which removes phosphate groups from target molecules, including DNA, RNA and alkaloids, under alkaline conditions, and is present at higher concentrations in the placenta (placental AP), intestines (intestinal AP) and liver/bone/kidney (tissue non-specific AP). Although the exact biochemical function of BAP is uncertain, measurement of the serum levels of BAP can be used as a biochemical indicator of bone turnover. Conditions which present with a decrease in the level of BAP (hypophosphatasemia) include the inherited bone-deforming disorder hypophosphatasia and osteoporosis, whilst an increase in BAP (hyperphosphatasemia) is associated with Paget's disease, bone fractures and osteosarcomas.

**References**


**Further Reading**


**Storage**

Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**

18 months from date of despatch.

**Health And Safety Information**


**Regulatory**

For research purposes only

**Recommended Products**

**Recommended Secondary Antibodies**

Donkey Anti Sheep IgG (STAR88...) DyLight®488, FITC, HRP
Rabbit Anti Sheep IgG (H/L) (5184-2304...) Biotin