

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

Product Details

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.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1/1500 - 1/15000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species Human

Product Form Purified IgG - liquid

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](#) [Related reagents](#)

Entrez Gene:

[249](#) ALPL [Related reagents](#)

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

1. LiuMi, a.o. *et al.* (2017) Fluorescent microsphere immunochromatographic assays for detecting bone alkaline phosphatase based on bilayer interferometry-selected antibody [RSC Adv. 7 \(52\): 32952-9.](#)

Further Reading

1. Farley, J. & Baylink, D.J. (1995) Skeletal alkaline phosphatase activity in serum. [Clin Chem. 41 \(11\): 1551-3.](#)

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.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10040 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

Donkey Anti Sheep IgG (STAR88...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#), [FITC](#), [HRP](#)

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'M310629:171012'

Printed on 28 Jan 2018