

## Datasheet: AHP1069

<b>Description:</b>	GOAT ANTI HUMAN OSTEOPONTIN (C-TERMINAL)
<b>Specificity:</b>	OSTEOPONTIN (C-TERMINAL)
<b>Other names:</b>	SPP1
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 mg

## Product Details

**RRID** AB\_2194836

**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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/ 64000
Immunoprecipitation			▪	
Western Blotting	▪			1.0 - 3.0 ug/ml
Functional Assays			▪	

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

**Species Cross Reactivity** Based on sequence similarity, is expected to react with: Dog, Rat, Mouse  
**N.B.** Antibody reactivity and working conditions may vary between species.

**Product Form** Purified IgG - liquid, ready to use.

**Antiserum Preparation** Antisera to osteopontin (CT) were raised by repeated immunisations of goat with highly purified antigen. Purified IgG prepared by affinity chromatography.

**Buffer Solution** TRIS buffered saline

**Preservative** 0.02% Sodium Azide (NaN<sub>3</sub>)  
**Stabilisers** 0.5% Bovine Serum Albumin

**Approx. Protein** IgG concentration 0.5mg/ml

## Concentrations

**Immunogen** Peptide with sequence C-DPKSKEEDKHLK, from the C-terminal of osteopontin.

## External Database Links

**UniProt:**

[P10451](#) [Related reagents](#)

**Entrez Gene:**

[6696](#) SPP1 [Related reagents](#)

**Synonyms** BNSP, OPN

## Specificity

**Goat anti Human Osteopontin antibody** recognises an epitope within the C-terminal (CT) region of osteopontin, an acid-rich, multidomain, phosphorylated ~60 kDa glycoprotein. Osteopontin is a secreted chemokine-like protein and member of the SIBLING family, and is synthesised by many cell types.

Osteopontin is involved in enhancing production of interferon-gamma and interleukin-12 and reducing production of interleukin-10. It is essential in the pathway that leads to type I immunity. Osteopontin is also thought to be important to cell-matrix interaction, and can bind fibronectin, collagen and calcium.

Osteopontin has been suggested to have a role in atherosclerosis, bone remodelling, angiogenesis, wound healing and tissue injuries.

## Western Blotting

AHP1069 detects a band of approximately 60kDa in lysates of human thymus, tonsil and spleen. Approximate 30kDa band observed in lysates of cell lines Jurkat and MOLT4. This band corresponds to the cleavage product from the 60kDa glycoprotein.

## References

1. Rangaswami, H. *et al.* (2006) Osteopontin: role in cell signaling and cancer progression. [Trends Cell Biol. 16: 79-87.](#)

## 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

Material Safety Datasheet documentation #10058 available at: 10058: <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

## Regulatory

For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

'M353078:190409'

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