

Datasheet: AHP1069

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

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
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. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

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 Stabilisers	0.02% Sodium Azide (NaN ₃) 0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5mg/ml
Immunogen	Peptide with sequence C-DPKSKEEDKHLK, from the C-terminal of osteopontin.
External Database Links	<p>UniProt: P10451 Related reagents</p> <p>Entrez Gene: 6696 SPP1 Related reagents</p>
Synonyms	BNSP, OPN
RRID	AB_2194836
Specificity	<p>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.</p> <p>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.</p> <p>Osteopontin has been suggested to have a role in atherosclerosis, bone remodelling, angiogenesis, wound healing and tissue injuries.</p>
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. <i>et al.</i> (2006) Osteopontin: role in cell signaling and cancer progression. Trens Cell Biol. 16: 79-87.
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10058 available at:
<https://www.bio-rad-antibodies.com/SDS/AHP1069>
10058

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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