

Datasheet: MCA6263B

Description:	MOUSE ANTI HUMAN OSTEOPONTIN:Biotin
Specificity:	OSTEOPONTIN
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	F03-4E8
Isotype:	IgG1
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
ELISA	▪			1.0 ug/ml

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 conjugated to Biotin - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	HEK293 derived recombinant human full length osteopontin (Ile17-Asn314)
External Database Links	UniProt:

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

Entrez Gene:

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

Synonyms	BNSP, OPN
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Fusion Partners	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0
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Specificity	<p>Mouse anti Human osteopontin antibody, clone F03-4E8, recognizes osteopontin (OPN) also known as bone sialoprotein 1, nephropontin secreted phosphoprotein 1 and uropontin. It is an acidic glycoprotein and is a member of the intrinsically disordered class of proteins (Kurzbauch et al. 2013). OPN plays a role in a multitude of physiological and pathophysiological processes. In inflammation it induces cell adhesion and migration, regulates differentiation of proinflammatory lymphocytes and inhibits apoptosis of inflammatory cells (Clemente et al. 2016). OPN is expressed by various cell types including bone, neural, epithelial and endothelial cells. It is also expressed by the immune cells T cells, B cells, natural killer cells and macrophages. In its secreted form OPN can be found in biological fluids such as blood, urine, bile and milk (Castello et al. 2017). OPN has been found to play a role in cancer progression by enhancing proliferation, survival, motility and invasion of tumor cells in a range of cancers. OPN was upregulated at tumor sites and in blood of the patients, with the level correlating with tumor stage and aggressiveness (Castello et al. 2017). High levels of OPN have also been detected in several autoimmune diseases including multiple sclerosis and rheumatoid arthritis (Clemente et al. 2016).</p> <p>The biotinylated Mouse anti Human osteopontin antibody, clone F03-4E8 (MCA6263B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human osteopontin antibody, clone F11-4C11 (MCA6262GA) as the capture antibody.</p>
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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>
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Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Useful Reagents

[MOUSE ANTI HUMAN OSTEOPONTIN \(MCA6262GA\)](#)

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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

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