

Datasheet: MCA6262GA

BATCH NUMBER 100005242

Description:	MOUSE ANTI HUMAN OSTEOPONTIN
Specificity:	OSTEOPONTIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	F11-4C11
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 - 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)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 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
Fusion Partners	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0
Specificity	<p>Mouse anti Human osteopontin antibody, clone F11-4C11, 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 (Kurzbach 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 purified Mouse anti Human osteopontin antibody, clone F11-4C11 (MCA6262GA) can be used as a capture antibody in a sandwich ELISA with the biotinylated Mouse anti Human osteopontin antibody, clone F03-4E8 (MCA6263B) as the detection antibody.</p>
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	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6262GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Useful Reagents

[MOUSE ANTI HUMAN OSTEOPONTIN:Biotin \(MCA6263B\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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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