

Datasheet: MCA6262GA

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

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](#)).

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.

Storage

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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

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

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®680 , DyLight®800 , FITC , HRP
Goat Anti Mouse IgG (STAR70...)	FITC

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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