abcam

Product datasheet

Anti-Osteopontin antibody [7C5H12] ab166709

★★★★★ 2 Abreviews 15 References 6 Images

Overview

Product name	Anti-Osteopontin antibody [7C5H12]
Description	Mouse monoclonal [7C5H12] to Osteopontin
Host species	Mouse
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Chimpanzee
Immunogen	Recombinant fragment corresponding to Human Osteopontin aa 167-314. Sequence: LRSKSKKFRRPDIQYPDATDEDITSHMESEELNGAYKAIPV AQDLNAPSD WDSRGKDSYETSQLDDQSAETHSHKQSRLYKRKANDES NEHSDVIDSQEL SKVSREFHSHEFHSHEDMLVVDPKSKEEDKHLKFRISHE LDSASSEVN Database link: **P10451** Run BLAST with Run BLAST with
Positive control	Human recombinant Osteopontin protein; HEK293 cells transfected with recombinant Human Osteopontin fragment (amino acids 167-314); Human prostate cancer, endometrial cancer and pancreas tissues.
General notes	This product was changed from ascites to supernatant. Lot no's high than GR206348-21 are from Tissue Culture Supernatant The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.05% Sodium azide Constituent: 99% PBS
Purity	Protein G purified
Purification notes	Purified from tissue culture supernatant.
Clonality	Monoclonal
Clone number	7C5H12
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab166709 in the following tested applications.

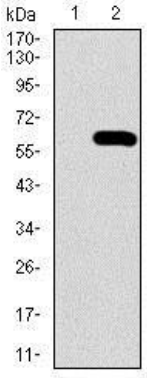
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/2000. Predicted molecular weight: 35 kDa.
IHC-P	★★★★★ (2)	1/200 - 1/1000.

Target

Function	Binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction. Acts as a cytokine involved in enhancing production of interferon-gamma and interleukin-12 and reducing production of interleukin-10 and is essential in the pathway that leads to type I immunity.
Tissue specificity	Bone. Found in plasma.
Sequence similarities	Belongs to the osteopontin family.
Post-translational modifications	Extensively phosphorylated on clustered serine residues. N- and O-glycosylated. Phosphorylation sites are present in the extracelllular medium.
Cellular localization	Secreted.

Images

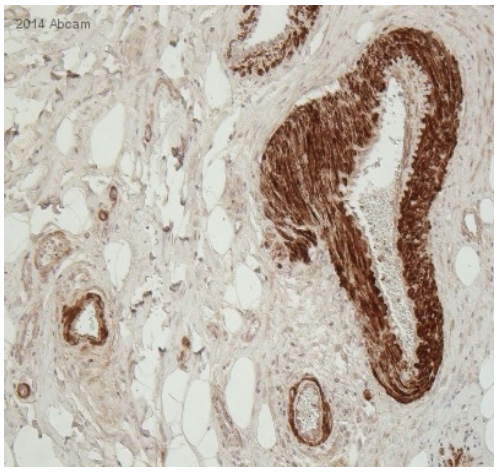


Western blot - Anti-Osteopontin antibody [7C5H12] (ab166709)

All lanes : Anti-Osteopontin antibody [7C5H12] (ab166709) at 1/500 dilution

Lane 1 : HEK293 cell lysate
Lane 2 : HEK293 cell lysate, transfected with recombinant Human Osteopontin fragment (amino acids 167-314)

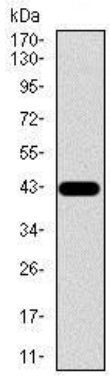
Predicted band size: 35 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Osteopontin antibody [7C5H12] (ab166709)

This image is courtesy of an Abreview submitted by Steffen Rickelt

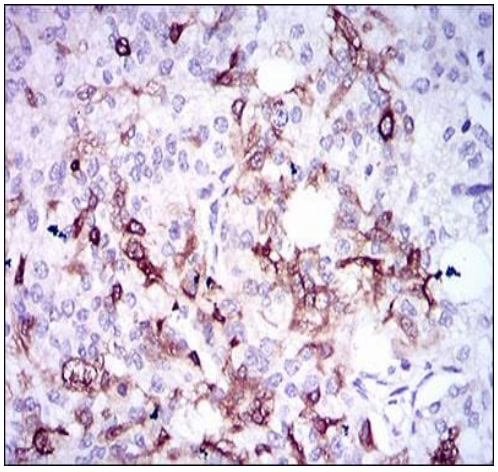
ab166709 staining Osteopontin in human colon (smooth muscle cells) tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde, permeabilized with 0.2% Triton X-100 in PBS and blocked with 5% milk for 30 minutes at room temperature; antigen retrieval was by heat mediation in Tris pH 9.0. Samples were incubated with primary antibody (1/100 in PBS) for 16 hours at 4°C. An undiluted Biotin-conjugated horse anti-mouse IgG polyclonal was used as the secondary antibody.



Western blot - Anti-Osteopontin antibody [7C5H12] (ab166709)

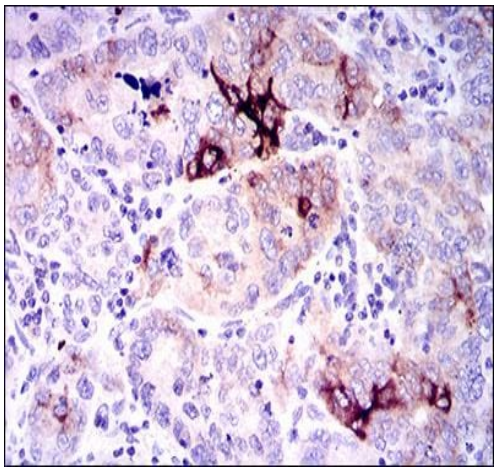
Anti-Osteopontin antibody [7C5H12] (ab166709) at 1/500 dilution + recombinant Human Osteopontin protein

Predicted band size: 35 kDa



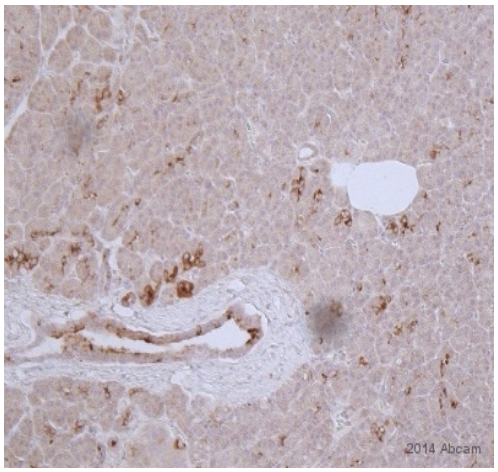
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Osteopontin antibody [7C5H12] (ab166709)

Immunohistochemical analysis of paraffin embedded, DAB-stained Human prostate cancer tissue labeling Osteopontin using ab166709 at a 1/200 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Osteopontin antibody [7C5H12] (ab166709)

Immunohistochemical analysis of paraffin embedded, DAB-stained Human endometrial cancer tissue, labeling Osteopontin using ab166709 at a 1/200 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Osteopontin antibody [7C5H12] (ab166709)

This image is courtesy of an Abreview submitted by Mrs. Maria Cecilia Ybanez.

Formalin-fixed, paraffin-embedded human pancreas tissue stained for Osteopontin using ab166709 at 1/100 dilution in immunohistochemical analysis.

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