

Product datasheet

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ARG58805 anti-OPN / Osteopontin antibody

Package: 50 μg Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes OPN / Osteopontin

Tested Reactivity Hu

Tested Application IHC-P, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name OPN / Osteopontin

Species Human

Immunogen Synthetic peptide corresponding to aa. 28-47 of Human OPN / Osteopontin

(EEKQLYNKYPDAVATWLNPD).

Conjugation Un-conjugated

Alternate Names BSPI; ETA-1; Uropontin; Osteopontin; Nephropontin; SPP-1; Bone sialoprotein 1; BNSP; Urinary stone

protein; OPN; Secreted phosphoprotein 1

Application Instructions

Application table	Application	Dilution
	IHC-P	0.5 - 1 μg/ml
	WB	0.1 - 0.5 μg/ml
Application Note	IHC-P: Antigen Retrieval: By heat mediation. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Affinity purification with immunogen.

Buffer 0.9% NaCl, 0.2% Na2HPO4, 0.05% Thimerosal, 0.05% Sodium azide and 5% BSA.

Preservative 0.05% Thimerosal and 0.05% Sodium azide

Stabilizer 5% BSA

Concentration 0.5 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Bioinformation

Gene Symbol SPP1

Gene Full Name secreted phosphoprotein 1

Background The protein encoded by this gene is involved in the attachment of osteoclasts to the mineralized bone

matrix. The encoded protein is secreted and binds hydroxyapatite with high affinity. The osteoclast vitronectin receptor is found in the cell membrane and may be involved in the binding to this protein. This protein is also a cytokine that upregulates expression of interferon-gamma and interleukin-12. Several transcript variants encoding different isoforms have been found for this gene. [provided by

RefSeq, Oct 2011]

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.

[UniProt]

Highlight Related products:

OPN antibodies; OPN ELISA Kits; Anti-Rabbit IgG secondary antibodies;

Related news:

The role of HDGF in tumor angiogenesis

Calculated Mw 35 kDa

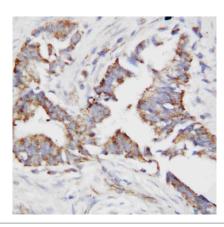
PTM Extensively phosphorylated by FAM20C in the extracellular medium at multiple sites within the S-x-E/pS

motif.

N- and O-glycosylated. Isoform 5 is GalNAc O-glycosylated at Thr-59 or Ser-62. [UniProt]

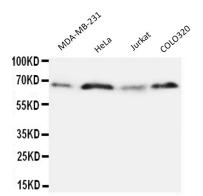
Cellular Localization Secreted. [UniProt]

Images



ARG58805 anti-OPN / Osteopontin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human mammary cancer stained with ARG58805 anti-OPN / Osteopontin antibody.



ARG58805 anti-OPN / Osteopontin antibody WB image

Western blot: MDA-MB-231, HeLa, Jurkat and COLO320 cell lysates stained with ARG58805 anti-OPN / Osteopontin antibody.