

ARG66154 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	ELISA
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	OPN / Osteopontin
Species	Human
Immunogen	HEK293 cells derived recombinant Human Osteopontin. (IPVKQADSGS SEEKQLYNKY PDAVATWLNP DPSQKQNLPA QNAVSSEET NDFKQETLPS KSNESHDMMD DMDEDDDDH VDSQDSIDSN DSDDVDDTDD SHQSDESHHS DESDELVTDF PTDLPATEVF TPVVPTVDY DGRGDSVYVG LRSKSKKFRP PDIQYPDATD EDITSHMESE ELNGAYKAIP VAQDLNAPSD WDSRGKDSYE TSQLDDQSAE TSHKQSRLY KRKANDESNE HSDVIDSQEL SKVSREFHSH EFHSHEDMLV VDPKSKEEDK HLKFRISHEL DSASSEVN)
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	<table><thead><tr><th>Application</th><th>Dilution</th></tr></thead><tbody><tr><td>ELISA</td><td>Sandwich: 0.5 - 2.0 µg/ml with ARG66155 as a detection antibody</td></tr></tbody></table>	Application	Dilution	ELISA	Sandwich: 0.5 - 2.0 µg/ml with ARG66155 as a detection antibody
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ELISA	Sandwich: 0.5 - 2.0 µg/ml with ARG66155 as a detection antibody				
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.				

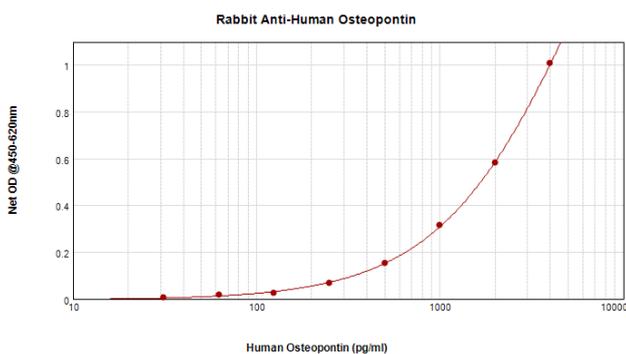
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.2)
Concentration	1 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.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 6696 Human Swiss-port # P10451 Human
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.
Cellular Localization	Secreted. [UniProt]

Images



ARG66154 anti-OPN / Osteopontin antibody standard curve image

Sandwich ELISA: ARG66154 anti-OPN / Osteopontin antibody as a capture antibody at 0.5 - 2.0 $\mu\text{g/ml}$ combined with [ARG66155](#) anti-OPN / Osteopontin antibody (Biotin) as a detection antibody. Results of a typical standard run with optical density reading at 405 - 650 nm.