

QUALITY CONTROL CERTIFICATE

Cat. No. MAB222P
Monoclonal Antibody to Human Osteopontin

Description Human Osteopontin (OPN) is a negatively charged hydrophilic protein of 314 amino acids and is subject to significant post translational modifications. OPN is cleaved by members of the matrix metalloproteinase family (MMP) which results in the generation of N-terminal and C-terminal OPN fragments. The newly exposed SVVYG epitope on the N-terminal fragment has been shown to participate in cell adhesion¹.

Clone Determination	14C08
Host	OPN Knockout Mouse
Immunogen	DSVVYG peptide conjugated to KLH
Immunoglobulin Class	IgG1 κ
Specificity	Recognizes native human OPN from purified breast milk. Specific for the MMP cleavage site, DSVVYG, of human OPN.
Purification	Protein A chromatography from <i>in vitro</i> production
Lot Number	
% Purity	> 95% pure determined by size-exclusion chromatography
pI	6.5-7.5
Concentration	
Buffer	0.15M PBS
Preservatives	None
Expiration date	
Quantity	
Volume	
Applications	ELISA- Sandwich and Indirect <i>Pairs well with MAB193P</i>
Working dilution	Determined by user
Storage	Store at -20°C to -80°C; avoid repeat freeze- thaw cycles

Reference: ¹Expression and characterization of recombinant osteopontin peptides representing matrix metalloproteinase proteolytic fragments (2004) Matrix Biology, 23 (7), pp. 457-466.

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