

QUALITY CONTROL CERTIFICATE

Cat. No. MAB193P
Monoclonal Antibody to Human Osteopontin, N-terminal

Description Human Osteopontin (OPN) is a negatively charged hydrophilic protein of 314 amino acids and is subject to significant post translational modifications (PTM) including phosphorylation and glycosylation. Due to its acidic nature and PTMs, OPN runs anomalously by SDS-PAGE. Although its mass is 35kD, apparent molecular weights may range up to 75kD. In addition, OPN is subject to proteolytic modification into smaller molecular weight fragments.

Clone Determination	2C5
Host	Mouse
Immunogen	Recombinant full-length human Osteopontin
Immunoglobulin Class	IgG1 κ
Specificity	Specific for the N-terminal fragment of full-length Osteopontin. Recognizes native human Osteopontin from purified breast milk and recombinant murine OPN expressed in E.coli.
Purification	Protein A chromatography from ascites
Lot Number	
% Purity	> % pure determined by size-exclusion chromatography
pI	7.0-7.8
Concentration	
Buffer	0.15M PBS
Preservatives	None
Expiration date	
Quantity	
Volume	
Applications	ELISA, WB <i>Pairs well with MAB222P</i>
Working dilution	Determined by user
Storage	Store at -20°C to -80°C; avoid repeat freeze- thaw cycles

References: Alicia Plumer, Hongyi Duan, Sripriya Subramaniam, F. Lee Lucas, Susan Meisfeldt, Ah-Kau Ng, Lucy Liaw. Development of Fragment Specific Osteopontin Antibodies and ELISA for Quantification in Human Metastatic Breast Cancer. BMC Cancer 2008, 8:38.

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