Osteopontin monoclonal antibody (87-B)

Osteopontin (OPN) is an acidic extracellular matrix cell adhesion protein that is relatively abundant not only in bone matrix, plasma, urine, and milk, but is also found in malignant and atherogenic tissues. Phosphorylation, glycosylation and calcium modifications allow intact and fragmented Osteopontin to direct a variety of diverse responses including tissue remodeling, inflammation and cell survival. Plasma Osteopontin has been shown to provide prognostic information in breast, prostate, colon, and lung cancers as well as metastatic carcinomas. The notable presence of Osteopontin in a variety of tumors is strongly correlated to pathological stage, suggesting its critical role in tumor invasiveness, progression and metastasis. In addition, Osteopontin inhibits inducible nitric oxide synthase activity, thereby protecting tumor cells from NO-mediated macrophage cytotoxic attack. Osteopontin is found in atherosclerotic plaques and may drive a number of diabetic vascular pathologies.

This antibody is covered by our Worry-Free Guarantee.

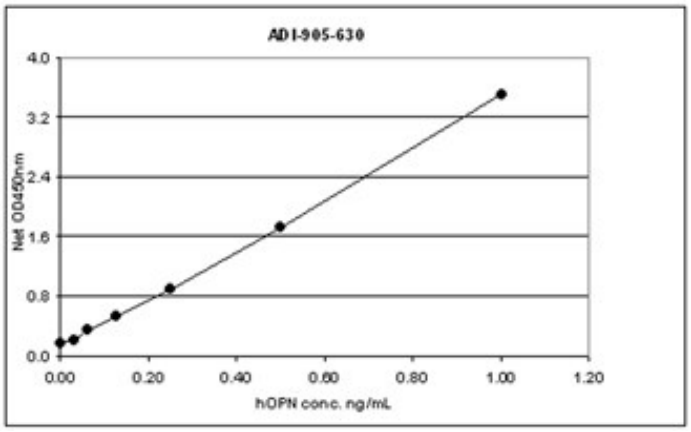
Ordering Information

Order Online »

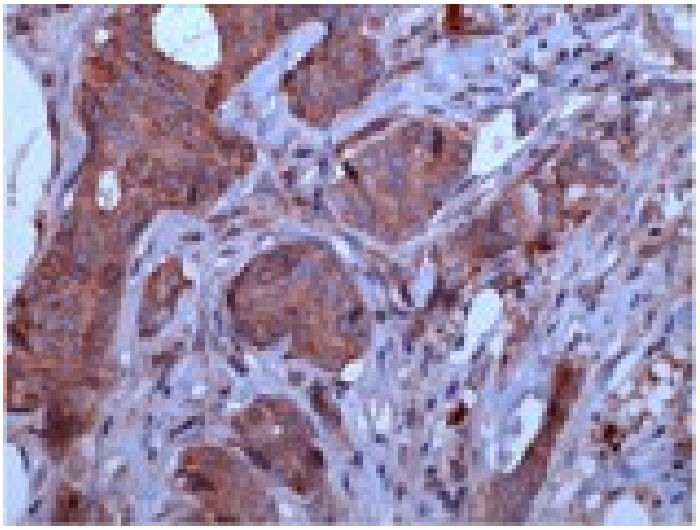
ADI-905-630-100	100µg

Manuals, SDS & CofA

View Online »



Sandwich ELISA Analysis of Osteopontin, mAb (87-B) (Prod. No. ADI-905-630)



Immunohistochemistry analysis of formalin-fixed, paraffin-embedded breast cancer tissue stained with 2µg/ml osteopontin, mAb.

Handling & Storage

Handling	Avoid freeze/thaw cycles.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	OPN, SPP1, Secreted phosphoprotein 1, Bone sialoprotein 1
Application	ELISA, IHC (FS), IHC (PS), WB
Clone	87-B
Crossreactivity	Does not cross-react with mouse or bovine OPN.
Formulation	Liquid. In PBS, pH 7.2, containing 0.09% sodium azide.
Host	Mouse
Immunogen	Recombinant GST tagged human osteopontin.
Isotype	IgG2a
Purity Detail	Protein G affinity purified.
Recommendation Dilutions/Conditions	Immunohistochemistry: staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate, pH 6.0, for 10min followed by cooling at RT for 20min.Suggested dilutions/conditions may not be available for all applications.Optimal conditions must be determined individually for each application.
Source	Purified from mouse ascites.
Species Reactivity	Human
Specificity	Recognizes full length OPN and C-terminal portion of thrombin-cleaved OPN.

Technical Info / Product Notes	For immunohistochemistry, staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate, pH6.0 for 10min followed by cooling at RT for 20min. Recognizes full length human OPN and C-terminal portion of thrombin-cleaved human OPN. Does not react with mouse or bovine OPN.
UniProt ID	P10451
Worry-free Guarantee	**This antibody is covered by our Worry-Free Guarantee .**

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