For Research Use Only

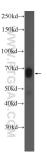
Osteopontin Polyclonal antibody Catalog Number:25715-1-AP 32 Publications

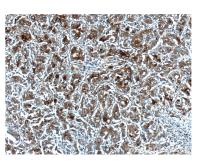


Basic Information	Catalog Number: GenBank Acce 25715-1-AP BC007016		ession Number:	nber: Purification Method: Antigen affinity purification	
	Concentration:	GenelD (NCBI): 6696 UNIPROT ID: P10451		Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500	
	650 μg/ml Source:				
	Rabbit				
	lsotype: IgG	Full Name: secreted phosphoprotein 1 Calculated MW: 314 aa, 35 kDa			
	Immunogen Catalog Number: AG22588				
		Observed MV 66 kDa	V:		
Applications	Tested Applications:		Positive Controls: WB : mouse kidney tissue, HEK-293, rat kidney tissue, HEK-293 cells, C2C12 cells		
	WB, IHC, ELISA Cited Applications:				
	WB, IHC, IF Species Specificity: human, mouse, rat	IHC : human stomach cancer tissue, human kidney tissue, human small intestine tissue			
	Cited Species: human, mouse, rat				
	Note-IHC: suggested antige TE buffer pH 9.0; (*) Altern retrieval may be performed buffer pH 6.0	atively, antige			
Background Information	Osteopontin (OPN), also known as SPP1, is a secreted glycophosphoprotein that belongs to the small integrin- binding ligand N-linked glycoprotein (SIBLING) family. Originally isolated from bone, OPN has been found in kidney, vascular tissues, biological fluids, and various tumor tissues (PMID: 15138464; 16406521). OPN can interact with CD44 and integrins and regulate diverse biological processes. It has a multifaceted role in bone development and remodeling, and is also involved in the inflammatory and immune response, oncogenesis and cancer progression. The very acidic nature of OPN, as well as the presence of variable posttranslational modifications, has led to anomalous migration in SDS-polyacrylamide gels and therefore to reports of different molecular weights for OPN (PMID: 8293561). Depending on the cell and tissue source and/or the SDS-PAGE system, OPN migrates with a molecular weight of 44-80 kDa, as well as at some smaller bands correspond to peptide fragments (PMID: 8195113; 17890765).				
Notable Publications	Author	Pubmed ID	Journal		Application
	Christian Stern	31561491	Int J Mol Sci		WB
	Lin Liu	36309970	Clin Exp Pharmac	ol Physiol	WB
	Xiaopei Wu	33449642	ACS Biomater Sci	Eng	WB, IHC
Storage	Storage: Store at -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20	d 50% glycerol, p⊦	17.3		

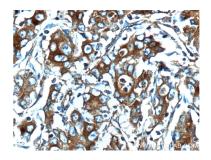
other manufacturer.

Selected Validation Data

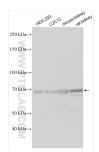




mouse kidney tissue were subjected to SDS PAGE followed by western blot with 25715-1-AP (Osteopontin antibody at dilution of 1:600 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using 25715-1-AP (Osteopontin antibody at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using 25715-1-AP (Osteopontin antibody at dilution of 1:200 (under 40x lens).



Various lysates were subjected to SDS PAGE followed by western blot with 25715-1-AP (Osteopontin antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.