Osteopontin Recombinant antibody

Catalog Number:83413-6-RR

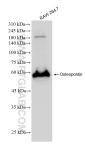


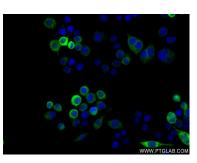
Basic Information	Catalog Number: 83413-6-RR	GenBank Accession Number: NM_001204233.1	Purification Method: Protein A purfication		
	Size: 1000 µg/ml Source: Rabbit Isotype: IgG	GeneID (NCBI): 20750 UNIPROT ID: Q547B5 Full Name: secreted phosphoprotein 1	CloneNo.: 240250A1 Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:125-1:500		
				Calculated MW: 32kd	
				Observed MW: 60 kDa	
		Applications	Tested Applications: WB, IF/ICC, ELISA	Positive	Controls:
			Species Specificity: mouse		264.7 cells, PS and Brefeldin A treated RAW 264.7 cells,
Background Informatio	Osteopontin (OPN) is also named as 2AR, minopontin, bone sialoprotein 1, Spp1, Eta-1 and Op, and belongs to the osteopontin family. Osteopontin is major non-collagenous bone protein that binds tightly to hydroxyapatite. It is a highly phosphorylated glycophosphoprotein having acidic characteristics and rich in aspartic acid (PMID: 30003880). And it 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 (PMID:2351930, PMID:10657301). OPN, a multifunctional protein, has important functions on cardiovascular diseases, cancer, diabetes and kidney stone diseases and in the process of inflammation, biomineralization, cell viability and wound healing (PMID: 30003880). Osteopontin (OPN) is a pleiotropic glycoprotein expressed in various cell types in animals and in humans, including bone, immune, smooth muscle, epithelial and endothelial cells. Moreover, OPN is found in kidneys (in the thick ascending limbs of the loop of Henle and in distal nephrons) and urine (PMID:30456594).				
Storage	Storage: Store at -20°C. Stable for one Storage Buffer: PBS with 0.02% sodium azid				

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

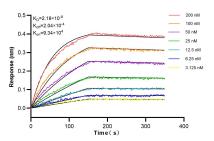
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data





Immunofluorescent analysis of (4% PFA) fixed LPS and Brefeldin A treated RAW 264.7 cells using Osteopontin antibody (83413-6-RR, Clone: 240250A1) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 83413-6-RR against Mouse Osteopontin were performed. The affinity constant is 2.19 nM.

RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 83413-6-RR (Osteopontin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.