Osteopontin Recombinant antibody

Catalog Number:83413-6-RR

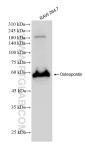


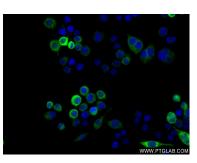
Basic Information	Catalog Number: 83413-6-RR	GenBank Accession Number: NM_001204233.1	Purification Method: Protein A purfication
	Size: 100ul , Concentration: 1000 µg/ml by Nanodrop; Source: Rabbit Isotype: IgG	GenelD (NCBI): 20750	CloneNo.: 240250A1
		UNIPROT ID: Q547B5 Full Name: secreted phosphoprotein 1	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:125-1:500
		Observed MW: 60 kDa	
		Applications	Tested Applications:
WB, IF/ICC, ELISA Species Specificity: mouse			264.7 cells, 'S and Brefeldin A treated RAW 264.7 cells,
	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 hydroxyapatit 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 interleuki 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).		
Background Information	to the osteopontin family. Osteoponti It is a highly phosphorylated glycoph (PMID: 30003880). And it acts as a cyt 12 and reducing production of interlet (PMID:2351930, PMID:10657301). OPP diseases, cancer, diabetes and kidney viability and wound healing (PMID: 3 various cell types in animals and in h cells. Moreover, OPN is found in kidne	n is major non-collagenous bone p osphoprotein having acidic charac okine involved in enhancing produ Jkin-10 and is essential in the path N, a multifunctional protein, has in stone diseases and in the process 0003880). Osteopontin (OPN) is a umans, including bone, immune, s	protein that binds tightly to hydroxyapatite teristics and rich in aspartic acid uction of interferon-gamma and interleukin way that leads to type I immunity oportant functions on cardiovascular of inflammation, biomineralization, cell pleiotropic glycoprotein expressed in mooth muscle, epithelial and endothelial
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For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

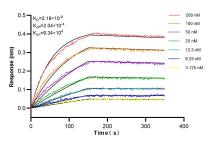
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.