

For Research Use Only

OPN, SPP1 Recombinant antibody, PBS Only



Catalog Number: 80912-4-PBS

Basic Information

Catalog Number: 80912-4-PBS	GenBank Accession Number: BC007016	Purification Method: Protein A purification
Size: 1mg/ml	GeneID (NCBI): 6696	CloneNo.: 6B11
Source: Rabbit	UNIPROT ID: P10451-5	
Isotype: IgG	Full Name: secreted phosphoprotein 1	
Immunogen Catalog Number: AG19216	Calculated MW: 314 aa, 35 kDa	
	Observed MW: 70 kDa, 44-66 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
Human, rat, mouse

Background Information

Osteopontin (OPN), also known as SPP1, is a secreted glycoprophosphoprotein that belongs to the small integrin-binding ligand N-linked glycoprotein (SIBLING) family. Originally isolated from bone, OPN has been found in kidneys, 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 corresponding to peptide fragments (PMID: 8195113; 17890765).

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:

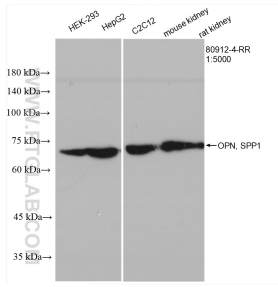
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 80912-4-RR (OPN, SPP1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80912-4-PBS in a different storage buffer formulation.