

For Research Use Only

OPN, SPP1 Recombinant antibody

Catalog Number: 83341-1-RR



Basic Information

Catalog Number: 83341-1-RR	GenBank Accession Number: BC007016	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 6696	CloneNo.: 240206A2
Source: Rabbit	UNIPROT ID: P10451-5	Recommended Dilutions: WB 1:1000-1:6000
Isotype: IgG	Full Name: secreted phosphoprotein 1	
	Calculated MW: 314 aa, 35 kDa	
	Observed MW: 70 kDa, 44-66 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : MOLT-4 cells, HepG2 cells, HEK-293 cells
Species Specificity: Human	

Background Information

Osteopontin (OPN), also known as SPP1, is a secreted glycoposphoprotein 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 -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

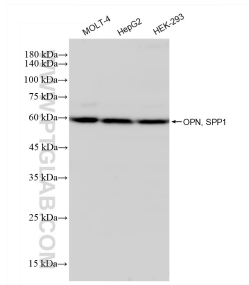
T: 4006900926

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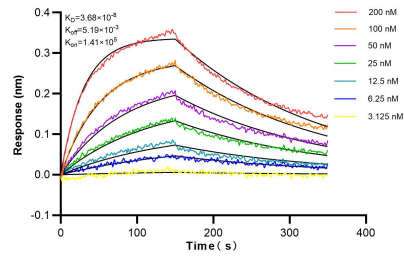
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83341-1-RR (OPN, SPP1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83341-1-RR against Human OPN/SPP1 were performed. The affinity constant is 36.8 nM.