

For Research Use Only

# CoraLite®647-conjugated Osteopontin Polyclonal antibody

Catalog Number:CL650-22952



## Basic Information

<b>Catalog Number:</b> CL650-22952	<b>GenBank Accession Number:</b> BC007016	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6696	<b>Excitation/Emission maxima wavelengths:</b> 654 nm / 674 nm
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P10451	
<b>Isotype:</b> IgG	<b>Full Name:</b> secreted phosphoprotein 1	
<b>Immunogen Catalog Number:</b> AG19216	<b>Calculated MW:</b> 314 aa, 35 kDa	
	<b>Observed MW:</b> 70 kDa, 44-66 kDa	

## Applications

**Tested Applications:**

**Species Specificity:**

human, rat, mouse

## 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 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).

## Storage

**Storage:**

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

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## Selected Validation Data