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# **Human OPN Antibody Pair Set**

Catalog No. E-KAB-0183 Applications ELISA

Synonyms SPP1, BNSP, BSP1, ETA-1, Bone Sialoprotein I, Secreted Phosphoprotein 1, Early T-

Lymphocyte Activation 1

## **Kit components & Storage**

Title	Specifications	Storage
Human OPN Capture Antibody	1 vial, 100 μ g	Store at -20°C for one year.
		Avoid freeze / thaw cycles.
Human OPN Detection Antibody (Biotin)	1 vial, 50 μL	Store at -20°C for one year.
		Avoid freeze / thaw cycles.

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Product Information**

Items		Characteristic (E-KAB-0183)		
		Human OPN Capture Antibody	Human OPN Detection Antibody	
			(Biotin)	
Immunogen	Immunogen	Recombinant Human OPN protein	Recombinant Human OPN protein	
Information	Swissprot	P10451		
Product details	Reactivity	Human	Human	
	Host	Mouse	Goat	
	Conjugation	Unconjugated	Biotin	
	Concentration	0.5mg/mL	/	
	Buffer	PBS with 0.04% Proclin 300, 50%	PBS with 0.04% Proclin 300, 1%	
		glycerol, pH 7.4	protective protein, 50% glycerol, pH	
			7.4	
	Purify	Protein A or G	Antigen Affinity	
	Specificity	Detects Human OPN in ELISAs.		

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# **Applications**

Human OPN Sandwich ELISA Assav:

	Recommended	Reagent	Images
	Concentration/Dilution		
ELISA	0.5-4μg/mL	Human OPN Capture Antibody	
Capture			Aug 1
ELISA Detection	1:1000-1:10000	Human OPN Detection Antibody (Biotin)	Only 0.01 0.01 1 10 100 Human OPN concentration(ng/mL)

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

## **Background**

The protein encoded by this gene is involved in the attachment of osteoclasts to the mineralized bone matrix. The encoded protein is secreted and binds hydroxyapatite with high affinity. The osteoclast vitronectin receptor is found in the cell membrane and may be involved in the binding to this protein. This protein is also a cytokine that upregulates expression of interferon-gamma and interleukin-12. Several transcript variants encoding different isoforms have been found for this gene.

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