

Human POSTN/OSF-2 Antibody Pair Set

Catalog No.	E-KAB-0158	Applications	ELISA
Synonyms	OSF2, PDLPOSTN, PN, RP11-412K4.1, Osteoblast Specific Factor 2		

Kit components & Storage

Title	Specifications	Storage
Human POSTN/OSF-2 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human POSTN/OSF-2 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze / thaw cycles.

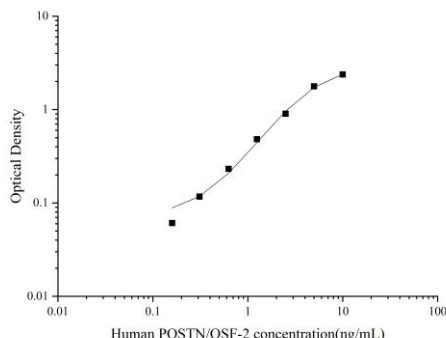
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0158)	
		Human POSTN/OSF-2 Capture Antibody	Human POSTN/OSF-2 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human POSTN/OSF-2 protein	Recombinant Human POSTN/OSF-2 protein
	Swissprot	Q15063	
Product details	Reactivity	Human	Human
	Host	Rabbit	Rabbit
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Protein A & Antigen Affinity	Protein A & Antigen Affinity
	Specificity	Detects Human POSTN/OSF-2 in ELISAs.	

Applications

Human POSTN/OSF-2 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4µg/mL	Human POSTN/OSF-2 Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Human POSTN/OSF-2 concentration (ng/mL). The x-axis ranges from 0.01 to 100 ng/mL, and the y-axis ranges from 0.01 to 10. The data points show a clear upward trend, indicating that as the concentration of the protein increases, the optical density also increases. The curve is approximately linear on this log-log scale, suggesting a power-law relationship between the two variables.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human POSTN/OSF-2 concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>0.1</td> <td>0.05</td> </tr> <tr> <td>0.2</td> <td>0.1</td> </tr> <tr> <td>0.5</td> <td>0.2</td> </tr> <tr> <td>1</td> <td>0.4</td> </tr> <tr> <td>2</td> <td>0.8</td> </tr> <tr> <td>5</td> <td>1.5</td> </tr> <tr> <td>10</td> <td>2.5</td> </tr> </tbody> </table>	Human POSTN/OSF-2 concentration (ng/mL)	Optical Density	0.1	0.05	0.2	0.1	0.5	0.2	1	0.4	2	0.8	5	1.5	10	2.5
Human POSTN/OSF-2 concentration (ng/mL)	Optical Density																		
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ELISA Detection	1:1000-1:10000	Human POSTN/OSF-2 Detection Antibody (Biotin)																	

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

Background

Periostin (POSTN,PN),originally named as osteoblast-specific factor 2 (OSF-2),is a 90-kDa secreted protein which is now classified as a matricellular protein. It is present in a wide variety of normal adult tissues and fetal tissues,and has a role in bone,tooth and heart development and function. Studies show that periostin is overexpressed in a broad range of human cancer types,includidng lung,ovary,breast and colon cancers. Recent evidence reveals that periostin is expressed by fibroblasts in the normal tissue and in the stroma of the primary tumour,and it is required to allow cancer stem cell maintenance.