

Human TSP-4 Antibody Pair Set

Catalog No.	E-KAB-0680	Applications	ELISA
Synonyms	THBS4;thrombospondin 4;Thrombospondin4;Thrombospondin-4;TSP4;TSP-4		

Kit components & Storage

Title	Specifications	Storage
Human TSP-4 Capture Antibody	1 vial, 100 µg	Store at -20°C. Avoid freeze / thaw cycles.
Human TSP-4 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C. Avoid freeze / thaw cycles.

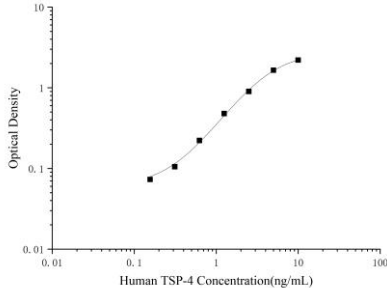
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0680)	
		Human TSP-4 Capture Antibody	Human TSP-4 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human TSP-4 protein	Recombinant Human TSP-4 protein
	Swissprot	P35443	
Product details	Reactivity	Human	Human
	Host	Goat	Goat
	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	Affinity purification	Affinity purification
	Specificity	Detects Human TSP-4 in ELISAs.	

Applications

Human TSP-4 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																		
ELISA Capture	0.5-4ug/mL	Human TSP-4 Capture Antibody	 <table border="1"> <caption>Standard Curve Data (Approximate)</caption> <thead> <tr> <th>Human TSP-4 Concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr><td>0.05</td><td>0.08</td></tr> <tr><td>0.1</td><td>0.12</td></tr> <tr><td>0.2</td><td>0.25</td></tr> <tr><td>0.5</td><td>0.5</td></tr> <tr><td>1</td><td>1.0</td></tr> <tr><td>2</td><td>1.8</td></tr> <tr><td>5</td><td>3.5</td></tr> <tr><td>10</td><td>5.5</td></tr> </tbody> </table>	Human TSP-4 Concentration (ng/mL)	Optical Density	0.05	0.08	0.1	0.12	0.2	0.25	0.5	0.5	1	1.0	2	1.8	5	3.5	10	5.5
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ELISA Detection	1:1000-1:10000	Human TSP-4 Detection Antibody (Biotin)																			

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

Background

Adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions and is involved in various processes including cellular proliferation, migration, adhesion and attachment, inflammatory response to CNS injury, regulation of vascular inflammation and adaptive responses of the heart to pressure overload and in myocardial function and remodeling. Binds to structural extracellular matrix (ECM) proteins and modulates the ECM in response to tissue damage, contributing to cardioprotective and adaptive ECM remodeling. Plays a role in ER stress response, via its interaction with the activating transcription factor 6 alpha (ATF6) which produces adaptive ER stress response factors and protects myocardium from pressure overload. May contribute to spinal presynaptic hypersensitivity and neuropathic pain states after peripheral nerve injury. May play a role in regulating protective astrogenesis from the subventricular zone (SVZ) niche after injury in a NOTCH1-dependent manner.