# 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 μ g | Store at -20℃. Avoid freeze / thaw cycles. |
| Human TSP-4 Detection Antibody (Biotin) | 1 vial, 50 μL | Store at -20℃. 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. | |


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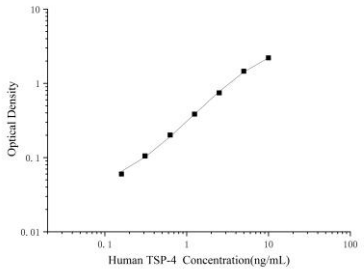
## Applications

Human TSP-4 Sandwich ELISA Assay

| | Recommended Concentration/Dilution | Reagent | Images |
|---|---|---|---|
| ELISA Capture | 0.5-4ug/mL | Human TSP-4 Capture Antibody |  |
| 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

Thrombospondin 4, as an adhesion glycoprotein, mediates cell-cell and cell-matrix interactions and is involved in a variety of processes, including cell proliferation, migration, adhesion and attachment, inflammatory response to central nervous system injury, regulation of vascular inflammation and cardiac adaptive response to pressure overload, as well as 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.



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