



Anti-THBS1 polyclonal antibody [Biotin] (DPABY-479)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Thrombospondins (TSP) are secreted multidomain glycoproteins with many putative functions including modulating cell adhesion, proliferation, migration, and angiogenesis. At least five TSPs exist: TSP-1, -2, -3, -4, and cartilage oligomeric glycoprotein (COMP)/TSP-5. The family can be divided into two subgroups. The first, TSP-1 and -2, are homotrimeric molecules, each monomer containing an N-terminal/heparin-binding domain, a coiled-coil oligomerization domain, a von Willebrand factor-type/procollagen homology domain, three type 1 thrombospondin repeats (TSR), three EGF-like repeats, seven TSP type 3 repeats, and a C-terminal globular domain. TSP-1 and -2 are thought to mediate interactions between cells and the extracellular matrix, and as such are matricellular proteins. In contrast, TSP-3, -4, and COMP/TSP-5 are homopentamers that lack the N-terminal structure of TSP-1 and -2, but have a similar arrangement of EGF and TSP type 3 repeats, and the C-terminal domain characteristic of the TSP family.
Specificity	Detects Thrombospondin-1 in ELISAs and Western blots. In sandwich immunoassays, less than 0.2% cross-reactivity with recombinant human(rh)Thrombospondin-2 and rhThrombospondin-4 is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Thrombospondin-1. Asn19-Phe1170 Accession Number P07996
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human
Purification	Antigen Affinity-purified
Conjugate	Biotin

Applications	Western Blot, ELISA Detection (Matched Pair)
Format	Liquid
Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	THBS1 thrombospondin 1 [Homo sapiens (human)]
Official Symbol	THBS1
Synonyms	THBS1; thrombospondin 1; TSP; THBS; TSP1; TSP-1; THBS-1; thrombospondin-1; thrombospondin-1p180;
Entrez Gene ID	7057
Protein Refseq	NP_003237
UniProt ID	P07996
Chromosome Location	15q15
Pathway	Bladder cancer; ECM-receptor interaction; Extracellular matrix organization; Focal Adhesion; Focal adhesion; Hemostasis; Inflammatory Response Pathway; Integrated Pancreatic Cancer Pathway;
Function	calcium ion binding; collagen V binding; fibrinogen binding; fibroblast growth factor binding; fibronectin binding; glycoprotein binding; heparin binding; identical protein binding; integrin binding; laminin binding; low-density lipoprotein particle bindi