



# Anti-THBS2 monoclonal antibody, clone 340038 (DCABY-4186)

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

## PRODUCT INFORMATION

<b>Antigen Description</b>	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.
<b>Specificity</b>	Detectshuman Thrombospondin-2 in ELISAs. In sandwich immunoassays, no cross-reactivity or interference with recombinant human (rh)Thrombospondin-1, -4, rhMMP-2, or rhCD36 is observed.
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human Thrombospondin-2. Gly19-Ile1172 Accession Number P35442
<b>Isotype</b>	IgG2a
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	340038
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant

<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA Capture (Matched Pair)
<b>Format</b>	Liquid
<b>Size</b>	500 µg
<b>Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
<b>Preservative</b>	None
<b>Storage</b>	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

<b>Gene Name</b>	<a href="#">THBS2 thrombospondin 2 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	THBS2
<b>Synonyms</b>	THBS2; thrombospondin 2; TSP2; thrombospondin-2;
<b>Entrez Gene ID</b>	<a href="#">7058</a>
<b>Protein Refseq</b>	<a href="#">NP_003238</a>
<b>UniProt ID</b>	<a href="#">P35442</a>
<b>Chromosome Location</b>	6q27
<b>Pathway</b>	ECM-receptor interaction; Focal Adhesion; Focal adhesion; Malaria; Metabolism of proteins; O-glycosylation of TSR domain-containing proteins; O-linked glycosylation; PI3K-Akt signaling pathway;
<b>Function</b>	calcium ion binding; heparin binding; protein binding;