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PRODUCT DATASHEET

Anti-Thrombospondin 1 Antibody

Product Details

Available Variants	100 uL (SKU:CSI 002-65-010) 400 uL (SKU:CSI 002-65-04) 1000 uL (SKU:CSI 002-65-1)
Conjugate	Unconjugated
Isotype	IgG1/k
Clone	A65M
Gene Name	THBS1
Host Species	Mouse
Concentration	1 mg/mL ±15%
Format	Protein A or Protein G purified
Physical State	Liquid
Buffer	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide
Production Notes	BSA free
Applications	ELISA, IHC, IP
Species Reactivity	Bovine, Human
Immunogen	Extracellular matrix material from cultured bovine corneal endothelial cells
Specificity	CSI 002-65 is highly specific for the low-calcium (0.1 mmol/L) conformation of human TSP1. There is no evidence of cross-reactivity with other connective tissue proteins (vitronectin, fibronectin, elastin, collagen, laminin). Epitope is only present in thrombospondin prepared in low-calcium (0.1 mmol/L) buffers.
Molecular Weight	129 kDA, appears at 150 kDa on WB due to glycosylation
Storage	2-8°C without exposure to light
UniProt ID	P07996 UniProt Summary: Adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions (PubMed:15014436, PubMed:18285447, PubMed:2430973,

PubMed:6489349). Multifunctional, involved in inflammation, angiogenesis, wound healing, reactive oxygen species (ROS) signaling, nitrous oxide (NO) signaling, apoptosis, senescence, aging, cellular self-renewal, stemness, and cardiovascular and metabolic homeostasis (PubMed:10613822, PubMed:11134179, PubMed:1371676, PubMed:14568985, PubMed:24511121, PubMed:29042481, PubMed:32679764). Negatively modulates dendritic cell activation and cytokine release, as part of an autocrine feedback loop, contributing to the resolution of inflammation and immune homeostasis (PubMed:14568985). Ligand for receptor CD47 (PubMed:19004835, PubMed:8550562). Modulates nitrous oxide (NO) signaling via CD47, hence playing a role as a pressor agent, supporting blood pressure (By similarity). Plays a role in endothelial cell senescence, acting via CD47, by increasing the abundance and activation of NADPH oxidase NOX1, and so generating excess ROS (PubMed:29042481). Inhibits stem cell self-renewal, acting via CD47 signaling, probably by regulation of the stem cell transcription factors POU5F1/OCT4, SOX2, MYC/c-Myc and KLF4 (By similarity). Negatively modulates wound healing, acting via CD47 (By similarity). Ligand for receptor CD36 (PubMed:10613822, PubMed:11134179, PubMed:1371676). Involved in inducing apoptosis in podocytes in response to elevated free fatty acids, acting via CD36 (By similarity). Plays a role in suppressing angiogenesis, acting, depending on context, via CD36 or CD47 (PubMed:10613822, PubMed:11134179, PubMed:1371676, PubMed:32679764). Promotes cellular senescence in a TP53-CDKN1A-RB1 signaling-dependent manner (PubMed:29042481). Ligand for immunoglobulin-like cell surface receptor SIRPA (PubMed:24511121). Involved in ROS signaling in non-phagocytic cells, stimulating NADPH oxidase-derived ROS production, acting via interaction with SIRPA (PubMed:24511121). Plays a role in metabolic dysfunction in diet-induced obesity, perhaps acting by exacerbating adipose inflammatory activity; its effects may be mediated, at least in part, through enhanced adipocyte proliferation (By similarity). 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 (By similarity). May be involved in age-related conditions, including metabolic dysregulation, during normal aging (PubMed:29042481, PubMed:32679764). {ECO:0000250|UniProtKB:P35441, ECO:0000269|PubMed:10613822, ECO:0000269|PubMed:11134179, ECO:0000269|PubMed:1371676, ECO:0000269|PubMed:14568985, ECO:0000269|PubMed:15014436, ECO:0000269|PubMed:18285447, ECO:0000269|PubMed:19004835, ECO:0000269|PubMed:2430973, ECO:0000269|PubMed:24511121, ECO:0000269|PubMed:29042481, ECO:0000269|PubMed:32679764, ECO:0000269|PubMed:6489349, ECO:0000269|PubMed:8550562}.

Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt

Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.
NCBI Gene ID	7057

Product Images



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