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Anti-COMP / THBS5 Antibody

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17366

Product Information

Application	WB, IHC-P
Primary Accession	P49747
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	82860

Additional Information

Gene ID	1311
Alias Symbol	COMP
Other Names	COMP, MED, PSACH, Thrombospondin-5, TSP5, THBS5, EDM1, EPD1
Target/Specificity	Human COMP / THBS5.
Reconstitution & Storage	PBS, pH 7.3, 0.02% sodium azide, 50% glycerol. Long term: -80°C; Short term: -20°C. Avoid freeze-thaw cycles.
Precautions	Anti-COMP / THBS5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	COMP (HGNC:2227)
Function	Plays a role in the structural integrity of cartilage via its interaction with other extracellular matrix proteins such as the collagens and fibronectin. Can mediate the interaction of chondrocytes with the cartilage extracellular matrix through interaction with cell surface integrin receptors (PubMed:16051604, PubMed:16542502). Could play a role in the pathogenesis of osteoarthritis (PubMed:16542502). Potent suppressor of apoptosis in both primary chondrocytes and transformed cells. Suppresses apoptosis by blocking the activation of caspase-3 and by inducing the IAP family of survival proteins (BIRC3, BIRC2, BIRC5 and XIAP) (PubMed:17993464). Essential for maintaining a vascular smooth muscle cells (VSMCs) contractile/differentiated phenotype under physiological and pathological stimuli. Maintains this phenotype of VSMCs by interacting with ITGA7 (By similarity).
Cellular Location	Secreted, extracellular space, extracellular matrix

Tissue Location	Abundantly expressed in the chondrocyte extracellular matrix, and is also found in bone, tendon, ligament and synovium and blood vessels. Increased amounts are produced during late stages of osteoarthritis in the area adjacent to the main defect