

**Anti-COMP / THBS5 Antibody**  
**Rabbit Anti Human Polyclonal Antibody**  
**Catalog # ALS17366****Specification**

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**Anti-COMP / THBS5 Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P49747</a>
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	82860
Dilution	WB~~1:1000 IHC-P~~N/A

**Anti-COMP / THBS5 Antibody - Additional Information****Gene ID** 1311

Alias Symbol	COMP
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**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.**Anti-COMP / THBS5 Antibody - 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:<a href="http://www.uniprot.org/citations/16051604" target="\_blank">16051604</a>, PubMed:<a href="http://www.uniprot.org/citations/16542502" target="\_blank">16542502</a>). Could play a role in the pathogenesis of osteoarthritis (PubMed:<a href="http://www.uniprot.org/citations/16542502" target="\_blank">16542502</a>). 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:<a href="http://www.uniprot.org/citations/17993464" target="\_blank">17993464</a>). 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

**Anti-COMP / THBS5 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-COMP / THBS5 Antibody - Images**