# Mouse anti-Human COMP Monoclonal Antibody | anti-COMP antibody

Anti-COMP Antibody, Mouse Monoclonal

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA254631** | **Mouse** | **Human** | **ELISA, ELISA** |

## PRODUCT SYNONYMS

COMP; Monoclonal Antibody; Anti-COMP Antibody; Mouse Monoclonal; COMP/THBS5 Antibody; Mouse MAb; cartilage oligomeric matrix protein; Anti-EDM1 Antibody; Anti-EPD1 Antibody; Anti-MED Antibody; Anti-PSACH Antibody; Anti-THBS5 Antibody; anti-COMP antibody

## PRODUCT SPECIFICATIONS

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| **Host** | Mouse |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Isotype** | Mouse IgG1 |
| **Clone Number** | 4H6G10D2 |
| **Specificity** | Human COMP/THBS5 |
| **Form/Format** | Liquid; 0.2um filtered solution in PBS |
| **Concentration** | 1 mg/mL (varies by lot) |
| **Applicable Applications for anti-COMP antibody** | ELISA, ELISA |
| **Immunogen** | Recombinant Human COMP protein |
| **Conjugation** | Unconjugated |
| **Preparation** | This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human COMP (rhCOMP). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography. |
| **Preparation and Storage** | This antibody can be stored at 2-8 degree for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree to -80 degree . Preservative free. Avoid repeated freeze/thaw cycles. |

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-COMP antibody** | Cartilage Oligomeric Matrix Protein (COMP), also referred to as Thrombospondin-5, is a non-collagenous extracellular matrix (ECM) protein and belongs to the subgroup B of the thrombospondin protein family. This protein is expressed primarily in cartilage, ligament, and tendon, and binds to other ECM proteins such as collagen I, II and IX with high affinities depending on the divalent cations Zn2+ or Ni2+. COMP is a secreted glycoprotein that is important for growth plate organization and function. It is suggested to play a role in cell growth and development, and recent studies have revealed the possible mechanism that it protects cells against death by elevating members of the IAP (inhibitor of apoptosis protein) family of survival proteins. Mutations in COMP cause two skeletal dysplasias, pseudoachondroplasia (PSACH) and multiple epiphyseal dysplasia (EDM1), and up-regulated expression of COMP are observed in rheumatoid arthritis and certain carcinomas. |

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| **References** | Posey KL, et al. (2004) Role of TSP-5/COMP in pseudoachondroplasia. Int J Biochem Cell Biol. 36(6): 1005-12.Chen FH, et al. (2005) Interaction of cartilage oligomeric matrix protein/thrombospondin 5 with aggrecan. J Biol Chem. 282(34): 24591-8.Posey KL, et al. (2008) The role of cartilage oligomeric matrix protein (COMP) in skeletal disease. Curr Drug Targets. 9(10): 869-77.Tan K, et al. (2009) The crystal structure of the signature domain of cartilage oligomeric matrix protein: implications for collagen, glycosaminoglycan and integrin binding. FASEB J. 23(8): 2490-501. |

## NCBI AND UNIPROT INFORMATION

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| **NCBI GI #** | 40217843 |
| **NCBI GeneID** | 1311 |
| **NCBI Accession #** | NP_000086.2 |
| **NCBI GenBank Nucleotide #** | NM_000095.2 |
| **UniProt Accession #** | P49747; O14592; Q16388; Q16389; Q2NL86; Q8N4T2; B4DKJ3 |
| **NCBI Official Full Name** | cartilage oligomeric matrix protein |
| **NCBI Official Synonym Full Names** | cartilage oligomeric matrix protein |
| **NCBI Official Symbol** | COMP |
| **NCBI Official Synonym Symbols** | MED; EDM1; EPD1; PSACH; THBS5 |
| **NCBI Protein Information** | cartilage oligomeric matrix protein; TSP5; cartilage oligomeric matrix protein (pseudoachondroplasia, epiphyseal dysplasia 1, multiple); cartilage oligomeric matrix protein(pseudoachondroplasia, epiphyseal dysplasia 1, multiple); pseudoachondroplasia (epi |
| **UniProt Protein Name** | Cartilage oligomeric matrix protein |
| **UniProt Gene Name** | **COMP** |
| **UniProt Synonym Gene Names** | COMP; TSP5 |
| **UniProt Entry Name** | COMP_HUMAN |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/comp-antibody-clone-4h6g10d2-elisa/254631