

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

Anti-COMP Antibody, Mouse Monoclonal

CATALOG # AAA254631	HOST Mouse	REACTIVITY Human	APPLICATIONS ELISA, ELISA
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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

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

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.
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NCBI AND UNIPROT INFORMATION

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.