Data Sheet

RAT CARTILAGE OLIGOMERIC MATRIX PROTEIN (COMP)

ANTIBODY, POLYCLONAL

Catalog no.:	AP1009.1 / AP1009.2
Immunogen:	Recombinant rat COMP Fragment (Type III repeats + C-terminal region)
Swiss-Prot No:	P35444
Gene Information:	Gene Name: Comp
	GeneID: 25304
Host:	Chicken
Matrix:	Serum
Specificity:	Rat COMP, mouse and human COMP
Contents:	20 µl / 100 µl (lyophilized)
	Resuspend in 20 µl / 100 µl aqua bidest.
Known applications:	Western Blot (1:1000), immunohistochemistry (paraffin sections, 1:3000)

This antibody has not been tested for use in all applications. This does not necessarily exclude its use for non-tested procedures. The stated dilutions are recommendations only. We suggest that the applicant titrates the antibody in his/her system using appropriate negative/positive controls.

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Store at:	2-8 °C (lyophilized); - 20 °C (dissolved)
	Repeated thawing and freezing must be avoided
References:	1. Spitznagel L, Nitsche DP, Paulsson M, Maurer P, Zaucke F (2004). Characterization of a pseudoachondroplasia-associated mutation (His587-->Arg) in the C-terminal, collagen-binding domain of cartilage oligomeric matrix protein (COMP). *Biochem J.* **377**(Pt 2): 479-87.
Last updated on:	27 April 2022
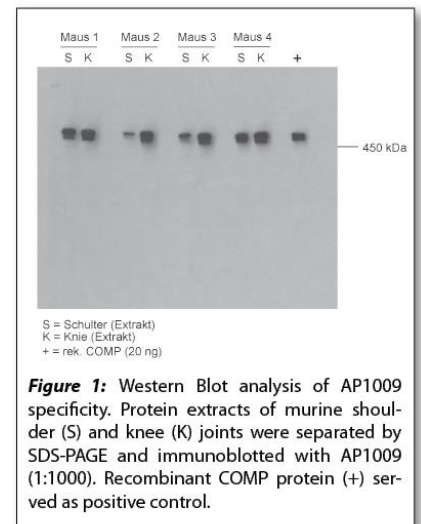
Figure 1: Western Blot analysis of AP1009 specificity. Protein extracts of murine shoulder (S) and knee (K) joints were separated by SDS-PAGE and immunoblotted with AP1009 (1:1000). Recombinant COMP protein (+) served as positive control.
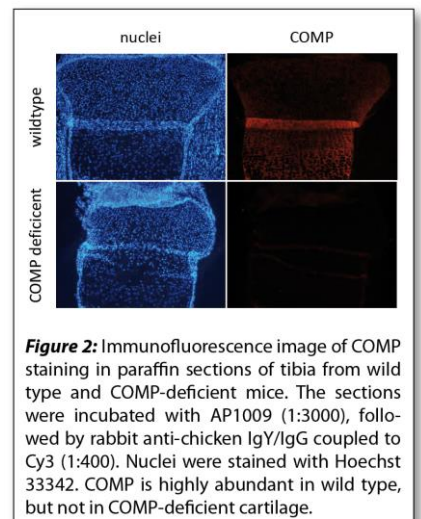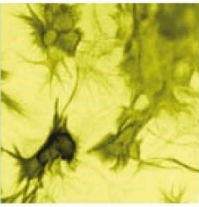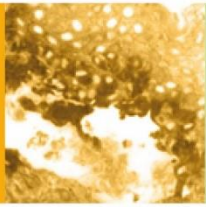

Figure 2: Immunofluorescence image of COMP staining in paraffin sections of tibia from wild type and COMP-deficient mice. The sections were incubated with AP1009 (1:3000), followed by rabbit anti-chicken IgY/IgG coupled to Cy3 (1:400). Nuclei were stained with Hoechst 33342. COMP is highly abundant in wild type, but not in COMP-deficient cartilage.

For research use only

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