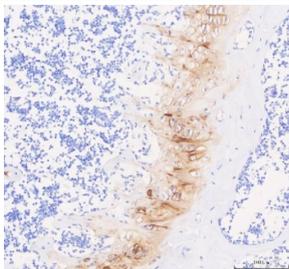


## COMP Antibody / Cartilage Oligomeric Matrix Protein (RQ4553)

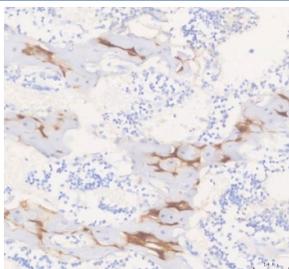
Catalog No.	Formulation	Size
RQ4553	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

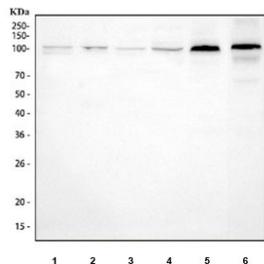
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	P49747
<b>Localization</b>	Secreted
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml
<b>Limitations</b>	This COMP is available for research use only.



IHC staining of FFPE mouse knee joint tissue with COMP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat knee joint tissue with COMP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HepG2, 2) human HaCaT, 3) human Caco-2, 4) human 293T, 5) rat cartilage and 6) mouse cartilage tissue lysate with COMP antibody at 0.5ug/ml. Expected molecular weight: 83-100 kDa depending on glycosylation level.

## Description

COMP is a pentameric extracellular matrix protein that catalyzes the assembly of collagens and promotes formation of well-defined fibrils. This gene is mapped to 19q13.32. The protein encoded by this gene is a cytoplasmic enzyme involved in energy homeostasis and is an important serum marker for myocardial infarction. The encoded protein reversibly catalyzes the transfer of phosphate between ATP and various phosphogens such as creatine phosphate. It acts as a homodimer in striated muscle as well as in other tissues, and as a heterodimer with a similar brain isozyme in heart. The encoded protein is a member of the ATP:guanido phosphotransferase protein family.

## Application Notes

Optimal dilution of the COMP antibody should be determined by the researcher.

## Immunogen

Amino acids Q505-A757 from the human protein were used as the immunogen for the COMP antibody.

## Storage

After reconstitution, the COMP antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.