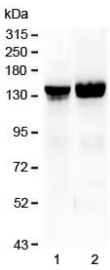
Collagen II Antibody (RQ4444)

Catalog No.	Formulation	Size
RQ4444	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P02458
Localization	Secreted
Applications	Western blot: 0.5-1ug/ml
Limitations	This Collagen II antibody is available for research use only.



Western blot testing of 1) rat liver and 2) mouse liver lysate with Collagen II antibody at 0.5ug/ml. Predicted molecular weight ~140 kDa.

Description

Collagen, type II, alpha 1, also known as COL2A1, is a human gene which is the major collagen synthesized by chondrocvtes. COL2A1 is mapped to 12q13.11. This gene encodes the alpha-1 chain of type II collagen, a fibrillar collagen found in cartilage and the vitreous humor of the eye. Mutations in this gene are associated with achondrogenesis, chondrodysplasia, early onset familial osteoarthritis, SED congenita, Langer-Saldino achondrogenesis, Kniest dysplasia, Stickler syndrome type I, and spondyloepimetaphyseal dysplasia Strudwick type. In addition, defects in

processing chondrocalcin, a calcium binding protein that is the C-propeptide of this collagen molecule, are also associated with chondrodysplasia.

Application Notes

Optimal dilution of the Collagen II antibody should be determined by the researcher.

Immunogen

Amino acids IDMSAFAGLGPREKGPDPLQYMRA were used as the immunogen for the Collagen II antibody.

Storage

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

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