

Product number
#11200

Recombinant human anti-COL2A1 Antibody (CB20)

Description

Affinity purified chimeric human-mouse monoclonal anti- collagen type II (COL2A1) antibody clone CB20 in PBS, produced in HEK293 cells. The CB20 antibody^{1,2} recognizes the C1 epitope on triple helical collagen II. The CB20 antibody tolerates the citrullination of Arg₃₆₀, but citrullination of Arg₃₆₅ abolishes binding³.

The CB20 antibody may be used for in vivo binding studies to locate the C1-epitope in tissues or for immunohistochemistry (IHC) with ex vivo cryofixed tissues, e.g. on collagen in the joints⁴. The CB20 antibody has been used to specifically block C1-epitope specific antibodies in serum⁵.

The CB20 antibody, provided as human IgG1, is ideal for staining tissue sections from other species such as experimental mice and rats, where anti-human IgG specific reagents may be used for detection without cross reactivity to the IgGs in the sample.

Target with alternative names

Collagen alpha-1(II) chain, COL2A1, type II collagen, CII; UniProt: [P28481](http://www.uniprot.org/entry/P28481).

Epitope

Mouse collagen II triple helical C1 epitope (position 359-369), with sequence ARGLTGRPGDA⁶, with binding focus on the latter Arginine⁷.

Species reactivity

Mouse, rat, human, chicken

Isotype

Human IgG1

Specificity

The CB20 antibody recognizes the conformational C1 epitope on the triple-helical structure of the native CII molecule.

Concentration

1 mg/ml

Sizes available

100 µg and 1 mg

Supplied in

PBS

Storage

Centrifuge briefly prior to opening vial. Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze/thaw cycles.

Recommended dilution

It is recommended that the user determines the optimal dilution for their application. The typical starting working dilutions are: Functional assays (cell culture) 1:200-1:500, IHC 1:1000.

*For Research Use Only. Not for use in diagnostic procedures.
Not for resale without express authorization.*

References

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