
Product number #11190

Human Anti- citrullinated COL2A1 Antibody (ACC4)

Description

Recombinant, affinity purified chimeric human-mouse monoclonal anti- collagen II (COL2A1) antibody clone ACC4 (hIgG1) in PBS, 0.2 µm filtered. The ACC4 antibody is an anti-citrullinated protein antibody (ACPA) that on COL2A1 binds specifically to citrullinated C1 epitope on alpha-chain. The antigen or epitope-specificity of this antibody is identical to its mouse IgG1 variant (#10190)^{1, 2}.

Target with alternative names

COL2A1, Collagen alpha-1(II) chain, CII, Col II, citrullinated CII; citrullinated Col II; citrullinated proteins. UniProt: [P28481](#).

Immunogen

The parental mouse monoclonal antibody ACC4 was generated by immunization of DBA/1 or (B10.Q × DBA/1) F1 mice with Protein-arginine deiminase type-4 (PAD4) -treated triple helical CII peptides containing T and B cell epitopes².

Epitope

The ACC4 antibody is specific to citrullinated C1 epitope (position 359–369; ARGLTGRPGDA) on type 2 collagen alpha chain.

Species reactivity

Mouse, bovine and potentially human

Isotype

Human IgG1, κ

Concentration

1 mg/ml

Sizes available

100µg and 1mg

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 dilution for IHC is 1:100.

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

References

1. He, Y., Ge, C., Moreno-Giró, À. et al. A subset of antibodies targeting citrullinated proteins confers protection from rheumatoid arthritis. Nat Commun 14, 691 (2023). PMID: [36754962](#)
2. Uysal, H. et al. Structure and pathogenicity of antibodies specific for citrullinated collagen type II in experimental arthritis. J. Exp. Med. 206, 449–462 (2009). PMID: [19204106](#)

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