Product Datasheet

Collagen II Antibody (II-4C11)
NBP2-33343

Unit Size: 0.1 mg

Store at -20C in the dark. Avoid freeze-thaw cycles.

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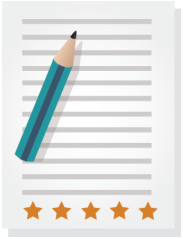
Updated 9/5/2019 v.20.1



NBP2-33343

Collagen II Antibody (II-4C11)

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C in the dark. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	II-4C11
Preservative	No Preservative
Isotype	IgG1
Purity	Protein A purified
Buffer	0.1M Sodium Phosphate (pH 7.0) and 0.5% BSA (protease - free)

Product Description	
Host	Mouse
Gene ID	1280
Gene Symbol	COL2A1
Species	Human, Mouse, Rat, Bovine, Rabbit
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 27185069)
Immunogen	This clone specifically reacts with the hCL(II) from human costal cartilage and cross-reacts with rabbit, bovine and rat CL(II).

Product Application Details	
Applications	Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 2 ug/ml, Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin 1-10 ug/ml, Immunohistochemistry-Frozen 1-10 ug/ml
Application Notes	Immunohistochemistry on frozen or paraffin sections (1-10) ug/ml). Also suitable for western blotting. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user. Use in ICC/IF reported in scientific literature (PMID 27185069).

Publications

Cao H, Li Z, Chen Y et al. Viscoelasticity microenvironment constructed by self-crosslinking hyaluronan hybrid hydrogels regulates chondrogenic differentiation of mesenchymal stem cells Composites Part B: Engineering 2023-08-01

Liu J, Yu C, Chen Y et al. Fast fabrication of stable cartilage-like tissue using collagen hydrogel microsphere culture J Mater Chem B 2020-04-09 [PMID: 32264594]

Ishimaru T, Komura M, Sugiyama M, Komura H. Slow Release of Basic Fibroblast Growth Factor (B-Fgf) Enhances Mechanical Properties of Rat Trachea J Pediatr Surg 2015-02-02 [PMID: 25638613]

Yao Y, Wang P, Li X et al. A di-self-crosslinking hyaluronan-based hydrogel combined with type I collagen to construct a biomimetic injectable cartilage-filling scaffold Acta Biomater 2020-05-17 [PMID: 32434079]

Shudo Y, MacArthur JW, Kunitomi Y et al. Three-Dimensional Multi-layered Microstructure using Laser Direct-Writing System Tissue Eng Part A 2020-02-21 [PMID: 32085692]

Chen M, Feng Z, Guo W et al. PCL-MECM-Based Hydrogel Hybrid Scaffolds and Meniscal Fibrochondrocytes Promote Whole Meniscus Regeneration in a Rabbit Meniscectomy Model ACS Appl Mater Interfaces 2019-10-22 [PMID: 31596568]

Lu J, Shen X, Sun X et al. Increased recruitment of endogenous stem cells and chondrogenic differentiation by a composite scaffold containing bone marrow homing peptide for cartilage regeneration Theranostics 2018-11-16 [PMID: 30429885] (IF/IHC, Rabbit)

Du Y, Liu H, Yang Q et al. Selective laser sintering scaffold with hierarchical architecture and gradient composition for osteochondral repair in rabbits. Biomaterials. 2017-08-01 [PMID: 28528301] (IF/IHC, Rabbit)

Jakob M. Townsend, S. Connor Dennis, Jonathan Whitlow et al. Colloidal Gels with Extracellular Matrix Particles and Growth Factors for Bone Regeneration in Critical Size Rat Calvarial Defects. The AAPS Journal. [PMID: 28138909] (IF/IHC, Rat)

Han ME, Kim SH1, Kim HD et al. Extracellular Matrix-based Cryogels for Cartilage Tissue Engineering. Int J Biol Macromol. [PMID: 27185069] (IF/IHC, IF/IHC, Mouse)

Kim SH, Lee HR, Yu SJ et al. Hydrogel-laden paper scaffold system for origami-based tissue engineering. Proc. Natl. Acad. Sci. U.S.A. 2015-12-15 [PMID: 26621717] (IHC-P, Rabbit)

Jia L, Chen J, Wang Y et al. Focused Low-intensity Pulsed Ultrasound Affects Extracellular Matrix Degradation via Decreasing Chondrocyte Apoptosis and Inflammatory Mediators in a Surgically Induced Osteoarthritic Rabbit Model. Ultrasound Med Biol 2015-09-21 [PMID: 26403700] (IHC-P, Rabbit)

More publications at http://www.novusbio.com/NBP2-33343

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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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