

Collagen II Antibody

Catalog No: #33340

Package Size: #33340-1 50ul #33340-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Collagen II Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of total Collagen II protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from human Collagen II.
Conjugates	Unconjugated
Target Name	Collagen II
Other Names	chondrocalcin; CO2A1; collagen alpha-1 (II); collagen type II alpha 1;
Accession No.	Swiss-Prot: P02458NCBI Gene ID: 1280
SDS-PAGE MW	140kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

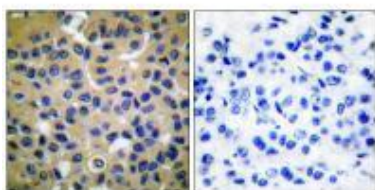
Application Details

Western blotting: 1:500~1:3000

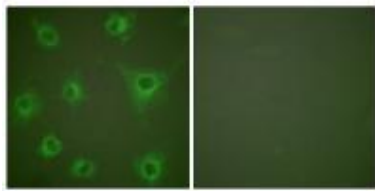
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:500

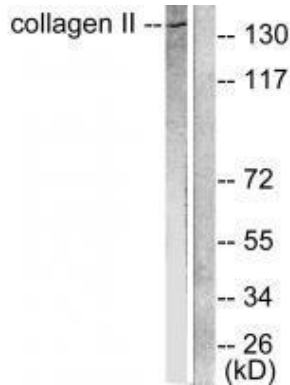
Images



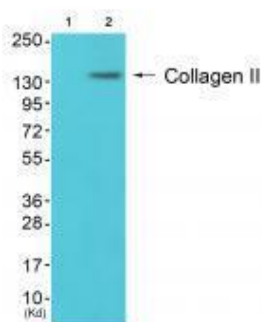
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Collagen II antibody #33340.



Immunofluorescence analysis of COS7 cells, using Collagen II antibody #33340.



Western blot analysis of extracts from COLO205 cells, using Collagen II antibody #33340.



Western blot analysis of extracts from 3T3 cells (Lane 2), using Collagen II antibody #33340. The lane on the left is treated with synthesized peptide.

Background

Type II collagen is specific for cartilaginous tissues. It is essential for the normal embryonic development of the skeleton, for linear growth and for the ability of cartilage to resist compressive forces.

Seema K. Tiwari-Woodruff, J. Cell Biol., Apr 2001; 153: 295.

Alexander Gow, J. Neurosci., Aug 2004; 24: 7051 - 7062.

Anne Florin, Endocrinology, Mar 2005; 146: 1532 - 1540.

Shin-ichiro Kitajiri, J. Cell Sci., Oct 2004; 117: 5087 - 5096.

Published Papers

Pan Yalan;Li Bin;Sun Xiaoxian;Tu Pengcheng;Guo Yang;Zhao Zitong;Wu Mao;Wang Yun;Wang Zhifang;Ma Yong et al., Composite Hydrogel Containing Collagen-Modified Polylactic Acid-Hydroxylactic Acid Copolymer Microspheres Loaded with Tetramethylpyrazine Promotes Articular Cartilage Repair, , (2024)

PMID:

Yueying Kong;Zijing Lu;Jianan Zhan;Xi Zhou;Shenghua Chen;Qiwei Chen;Haihuan Gong;Xianlin Zhang;Xiaoyan Mao;Yilin Wang;Wenhua Huang et al., Enhancing auricular reconstruction: A biomimetic scaffold with 3D-printed multiscale porous structure utilizing chondrogenic activity ink., , (2025)

PMID:39968521

Note: This product is for in vitro research use only and is not intended for use in humans or animals.