

ARG66488 anti-Collagen II antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes Collagen II
Tested Reactivity	Hu
Tested Application	IHC-P
Host	Mouse
Clonality	Monoclonal
Isotype	IgG
Target Name	Collagen II
Species	Human
Immunogen	Synthetic peptide derived from Human Collagen II.
Conjugation	Un-conjugated
Alternate Names	AOM; ANFH; SEDC; STL1; COL11A3; Collagen alpha-1(II) chain; Alpha-1 type II collagen

Application Instructions

Application table	Application	Dilution
	IHC-P	1:100 - 1:500

Application Note IHC-P: Antigen Retrieval: Citrate buffer (pH 6.0) was used.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

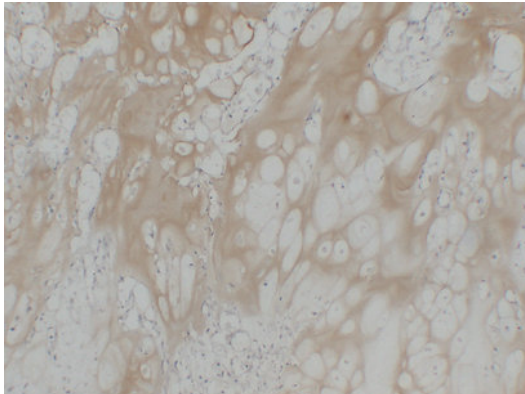
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.02% Sodium azide, 50% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.5% BSA
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	COL2A1
Gene Full Name	collagen, type II, alpha 1
Background	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. There are two transcripts identified for this gene. [provided by RefSeq, Jul 2008]
Function	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. [UniProt]
Calculated Mw	142 kDa
PTM	Probably 3-hydroxylated on prolines by LEPREL1 (By similarity). Proline residues at the third position of the tripeptide repeating unit (G-X-P) are hydroxylated in some or all of the chains. Proline residues at the second position of the tripeptide repeating unit (G-P-X) are hydroxylated in some of the chains. The N-telopeptide is covalently linked to the helical COL2 region of alpha 1(IX), alpha 2(IX) and alpha 3(IX) chain. The C-telopeptide is covalently linked to an another site in the helical region of alpha 3(IX) COL2. [UniProt]
Cellular Localization	Secreted, extracellular space, extracellular matrix. [UniProt]

Images



ARG66488 anti-Collagen II antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human chondrosarcoma stained with ARG66488 anti-Collagen II antibody at 1:200 (4°C, overnight). Antigen Retrieval: Citrate buffer (pH 6.0) was used.