

## ARG62450 anti-Collagen II antibody [5B2.5]

Package: 100 µl

Store at: 4°C

### Summary

Product Description	Mouse Monoclonal antibody [5B2.5] recognizes Collagen II
Tested Reactivity	Hu, Ms, Chk, Pig, Rb
Tested Application	ICC/IF, IHC-Fr, IHC-P, WB
Specificity	This antibody is highly specific to type II collagen and shows no cross-reaction with types I, III, IV, V, VI, IX, X, or XI. In Western blotting, this antibody reacts with the TCA fragment of lathyritic type II collagen after digestion with mammalian collagenase. It does not react with pepsin-digested type II collagen.
Host	Mouse
Clonality	Monoclonal
Clone	5B2.5
Isotype	IgG2a, kappa
Target Name	Collagen II
Species	Chicken
Immunogen	A purified preparation of lathyritic type II collagen from embryonic chicken sternum
Conjugation	Un-conjugated
Alternate Names	Collagen alpha-1(II) chain; Alpha-1 type II collagen

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1/10 - 1/500
	IHC-Fr	1/10 - 1/500
	IHC-P	1/10 - 1/500
	WB	1 - 2 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Protein A purified
Buffer	1X PBS buffer with 0.1% sodium azide.
Preservative	0.1% sodium azide.
Concentration	2 mg/ml

**Storage instruction** Aliquot and store at 2-8°C. 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

<b>Gene Symbol</b>	COL2A1
<b>Gene Full Name</b>	collagen, type II, alpha 1
<b>Background</b>	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]
<b>Function</b>	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. [provided by Uniprot]
<b>Research Area</b>	Developmental Biology antibody; Signaling Transduction antibody
<b>Calculated Mw</b>	142 kDa
<b>PTM</b>	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.
<b>Cellular Localization</b>	Secreted

## Images

