

Rabbit anti-Mouse, Rat Collagen II Polyclonal Antibody | anti-COL2A1 antibody

Anti-Collagen II antibody

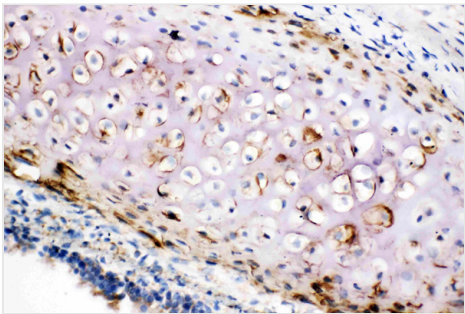
CATALOG # AAA45631	HOST Rabbit	REACTIVITY Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

Collagen II; Polyclonal Antibody; Anti-Collagen II antibody; Collagen alpha-1(II) chain; collagen; type II; alpha 1; Alpha 1 type II collagen antibody; Alpha-1 type II collagen antibody; AOM antibody; Cartilage collagen antibody; Chondrocalcin antibody; CO2A1_HUMAN antibody; COL11A3 antibody; COL2A1 antibody; COL2A1 protein antibody; Collagen alpha 1(II) chain precursor antibody; Collagen II alpha 1 polypeptide antibody; Collagen type II alpha 1(primary osteoarthritis spondyloepiphyseal dysplasia congenital) antibody; MGC131516 antibody; SEDC antibody; anti-COL2A1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	1487
Applicable Applications for anti-COL2A1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse Collagen II1222-1241aa AFAGLGQREKGPDPQMRYMRA), different from the related rat sequence by one amino acid.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)
Anti-Collagen II antibody, AAA45631, IHC(F)IHC(F): Rat Trachea Tissue

WB (Western Blot)
Anti-Collagen II antibody, AAA45631, Western blottingLane 1: Rat Heart Tissue LysateLane 1:
Rat Brain Tissue Lysate

ADDITIONAL INFORMATION

Related Product Information for anti-COL2A1 antibody	Collagen, type II, alpha 1, also known as COL2A1, is a human gene which is the major collagen synthesized by chondrocytes. COL2A1 is mapped to 12q13.11. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	125987808
NCBI GeneID	12824
UniProt Accession #	P28481; Q61428; Q62031; Q62032; Q62033; Q641K3; Q6LDB1; Q6LDI8; Q6LDI9; Q80VY3; Q80X38; Q8CEF7
NCBI Official Full Name	Collagen alpha-1(II) chain
NCBI Official Synonym Full Names	collagen, type II, alpha 1
NCBI Official Symbol	Col2a1
NCBI Official Synonym Symbols	Dmm; Lpk; Col2; Del1; Col2a; Col2a-1; M100856; Rgsc856
NCBI Protein Information	collagen alpha-1(II) chain; collagen alpha-1(II) chain; chondrocalcin; alpha-1 type II collagen; disproportionate micromelia; procollagen, type II, alpha 1
UniProt Protein Name	Collagen alpha-1(II) chain
UniProt Gene Name	Col2a1
UniProt Entry Name	CO2A1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.