COL9A1 rabbit monoclonal antibody

Catalog # H00001297-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human COL9A1 peptide using ARM Technology.
Immunogen	A synthetic peptide of human COL9A1 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human COL9A1 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering in cluding $F(ab)_2$, IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

  Protocol Download

- ELISA

Gene Info — COL9A1

Entrez GeneID	1297
GeneBank Accession#	COL9A1
Gene Name	COL9A1
Gene Alias	DJ149L1.1.2, EDM6, FLJ40263, MED
Gene Description	collagen, type IX, alpha 1
Omim ID	120210
Gene Ontology	Hyperlink
Gene Summary	This gene encodes one of the three alpha chains of type IX collagen, which is a minor (5-20%) collagen component of hyaline cartilage. Type IX collagen is usually found in tissues containing type II collagen, a fibrillar collagen. Studies in knockout mice have shown that synthesis of the alpha 1 chain is essential for assembly of type IX collagen molecules, a heterotrimeric molecule, and that lack of type IX collagen is associated with early onset osteoarthritis. Mutations in this gene are associated with osteoarthritis in humans, with multiple epiphyseal dysplasia, 6, a form of chondrodysplasia, and with Stickler syndrome, a disease characterized by ophthalmic, orofacial, articular, and auditory defects. Two transcript variants that encode different isoforms have been identified for this gene. [provided by RefSeq
Other Designations	alpha 1 type IX collagen|alpha-1(IX) collagen chain|cartilage-specific short collagen|collagen IX, alpha-1 polypeptide

Disease

- Cardiovascular Diseases
- Clubfoot
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Intervertebral Disk Displacement
- Osteoarthritis

- Osteochondrodysplasias
- Tobacco Use Disorder