

## Rabbit COL9A1 Polyclonal Antibody | anti-COL9A1 antibody

COL9A1 Antibody (Center)

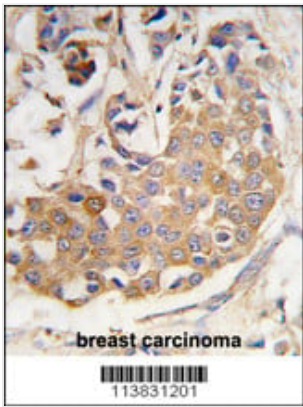
| CATALOG # | HOST   | REACTIVITY                          | APPLICATIONS                              |
|-----------|--------|-------------------------------------|-------------------------------------------|
| AAA287577 | Rabbit | Human (Predicted Reactivity: Mouse) | Immunohistochemistry, ELISA, Western Blot |

### PRODUCT SYNONYMS

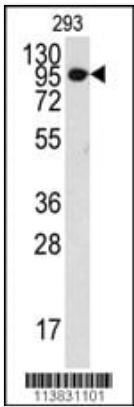
COL9A1; Polyclonal Antibody; COL9A1 Antibody (Center); Collagen alpha-1(IX) chain; anti-COL9A1 antibody

### PRODUCT SPECIFICATIONS

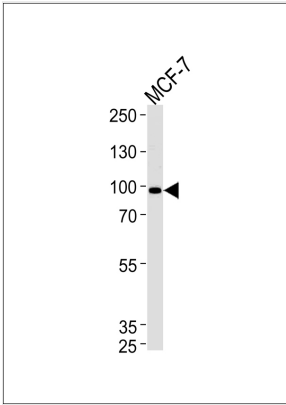
|                                                  |                                                                                                                                                                              |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                       |
| Reactivity                                       | Human (Predicted Reactivity: Mouse)                                                                                                                                          |
| Clonality                                        | Polyclonal                                                                                                                                                                   |
| Isotype                                          | Rabbit Ig                                                                                                                                                                    |
| Specificity                                      | This COL9A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 428-456 amino acids from the Central region of human COL9A1.        |
| Purity/Purification                              | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                   |
| Form/Format                                      | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Concentration                                    | Vial Concentration: 0.5 (varies by lot)                                                                                                                                      |
| Sequence Positions                               | 428-456                                                                                                                                                                      |
| Sequence Length                                  | 328                                                                                                                                                                          |
| Applicable Applications for anti-COL9A1 antibody | IHC (Immunohistochemistry), ELISA, WB (Western Blot)                                                                                                                         |
| Antigen Type                                     | Synthetic Peptide                                                                                                                                                            |
| Crown Antibody                                   | Yes                                                                                                                                                                          |
| Antigen Source                                   | HUMAN                                                                                                                                                                        |
| Preparation and Storage                          | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                       |



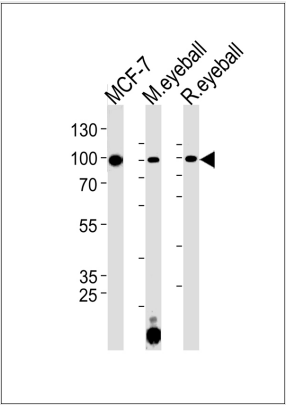
**IHC (Immunohistochemistry)**  
Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with COL9A1 antibody (Center) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



**WB (Western Blot)**  
Western blot analysis of anti-COL9A1 Antibody (Center) in 293 cell line lysates (35ug/lane). COL9A1(arrow) was detected using the purified Pab.



**WB (Western Blot)**  
COL9A1 Antibody (Center) western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the COL9A1 antibody detected the COL9A1 protein (arrow).



**WB (Western Blot)**  
COL9A1 Antibody (Center) western blot analysis in MCF-7 cell line and mouse eyeball, rat eyeball tissue lysates (35ug/lane).This demonstrates the COL9A1 antibody detected the COL9A1 protein (arrow).

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-COL9A1 antibody | COL9A1 is 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 the COL9A1 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. |
| Product Categories/Family for anti-COL9A1 antibody   | Crown Antibodies; Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| References                                           | Fresquet,M., J. Biol. Chem. 282 (48), 34634-34643 (2007)<br>Liu,L.Y., Yi Chuan 29 (4), 427-432 (2007)<br>Van Camp,G., Am. J. Hum. Genet. 79 (3), 449-457 (2006)<br>Sivakumaran,T.A., J. Assoc. Res. Otolaryngol. 7 (2), 160-172 (2006)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

NCBI AND UNIPROT INFORMATION

|             |          |
|-------------|----------|
| NCBI GI #   | 73486666 |
| NCBI GeneID | 1297     |

|                                  |                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------|
| NCBI Accession #                 | NP_001842.3; NP_511040.2                                                               |
| NCBI GenBank Nucleotide #        | NM_001851.4                                                                            |
| UniProt Accession #              | P20849; Q13699; Q13700; Q5TF52; Q6P467; Q96BM8; Q99225; Q9H151; Q9H152; Q9Y6P2; Q9Y6P3 |
| Molecular Weight                 | 91869                                                                                  |
| NCBI Official Full Name          | collagen alpha-1(IX) chain isoform 1                                                   |
| NCBI Official Synonym Full Names | collagen, type IX, alpha 1                                                             |
| NCBI Official Symbol             | COL9A1                                                                                 |
| NCBI Official Synonym Symbols    | MED; EDM6; STL4; DJ149L1.1.2                                                           |
| NCBI Protein Information         | collagen alpha-1(IX) chain                                                             |
| UniProt Protein Name             | Collagen alpha-1(IX) chain                                                             |
| UniProt Gene Name                | <b>COL9A1</b>                                                                          |
| UniProt Entry Name               | CO9A1_HUMAN                                                                            |

**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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/col9a1-antibody-immunohistochemistry-western-blot-elisa/287577>