

## ARG55560 anti-Collagen IX antibody

Package: 100 µl  
Store at: -20°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes Collagen IX  |
| Tested Reactivity   | Hu, Ms, Rat  |
| Tested Application  | IHC-P, WB  |
| Host                | Rabbit   |
| Clonality           | Polyclonal   |
| Isotype             | IgG  |
| Target Name         | Collagen IX  |
| Species             | Human  |
| Immunogen           | KLH-conjugated synthetic peptide corresponding to aa. 428-456 (Center) of Human Collagen IX. |
| Conjugation         | Un-conjugated  |
| Alternate Names     | MED; EDM6; STL4; DJ149L1.1.2; Collagen alpha-1(IX) chain                                     |

### Application Instructions

|                   |  |             |
|-------------------|--|-------------|
| Application table | Application  | Dilution    |
|                   | IHC-P  | 1:10 - 1:50 |
|                   | WB   | 1:1000      |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |             |
| Positive Control  | MCF7   |             |

### Properties

|                     |  |
|---------------------|--|
| Form                | Liquid   |
| Purification        | This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.  |
| Buffer              | PBS and 0.09% (W/V) Sodium azide   |
| Preservative        | 0.09% (W/V) Sodium azide   |
| 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 or below. 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.   |

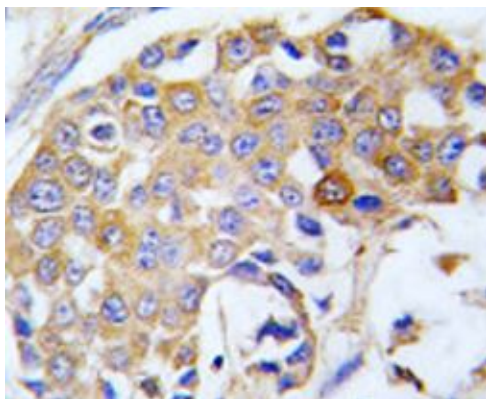
## Bioinformation

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|                       |  |
|-----------------------|--|
| Database links        | <a href="#">GeneID: 12839 Mouse</a><br><a href="#">GeneID: 1297 Human</a><br><a href="#">Swiss-port # P20849 Human</a><br><a href="#">Swiss-port # Q05722 Mouse</a>  |
| Gene Symbol           | COL9A1   |
| Gene Full Name        | collagen, type IX, alpha 1   |
| Background            | 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, Jul 2008] |
| Function              | Structural component of hyaline cartilage and vitreous of the eye. [UniProt]   |
| Research Area         | Signaling Transduction antibody  |
| Calculated Mw         | 92 kDa   |
| PTM                   | Covalently linked to the telopeptides of type II collagen by lysine-derived cross-links. Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains.  |
| Cellular Localization | Secreted, extracellular space, extracellular matrix  |

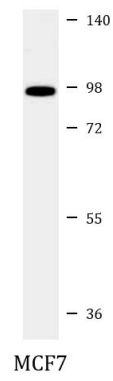
## Images

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ARG55560 anti-Collagen IX antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human breast carcinoma tissue stained with ARG55560 anti-Collagen IX antibody.



#### ARG55560 anti-Collagen IX antibody WB image

Western blot: 35 µg of MCF7 cell lysate stained with ARG55560 anti-Collagen IX antibody.