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Datasheet for ABIN357919

## anti-Collagen Type IX antibody (Chain alpha 1)

### 2 Images

#### Overview

Quantity:	0.4 mL
Target:	Collagen Type IX
Binding Specificity:	Chain alpha 1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Collagen Type IX antibody is un-conjugated
Application:	Enzyme Immunoassay (EIA), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Western Blotting (WB)

#### Product Details

Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the Center region of human COL9A1.
Isotype:	Ig Fraction
Specificity:	This antibody detects COL9A1 (Center). Predicted to cross react with Mouse (100 % Antigen Homology).
Purification:	Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

#### Target Details

Target:	Collagen Type IX
Abstract:	<a href="#">Collagen Type IX Products</a>

## Target Details

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**Background:** 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. Synonyms: COL9A1

**Molecular Weight:** 91855 Da

**Gene ID:** 1297, 9606

**UniProt:** [P20849](#)

## Application Details

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**Application Notes:** ELISA: 1/1,000. Western Blot: 1/50-1/100. Immunohistochemistry: 1/10-1/50.  
Other applications not tested.  
Optimal dilutions are dependent on conditions and should be determined by the user.

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Concentration:** 0.25 mg/mL

**Buffer:** PBS with 0.09 % (W/V) Sodium Azide as preservative.

**Preservative:** Sodium azide

**Precaution of Use:** This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

**Handling Advice:** Avoid repeated freezing and thawing.

**Storage:** 4 °C/-20 °C

**Storage Comment:** Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

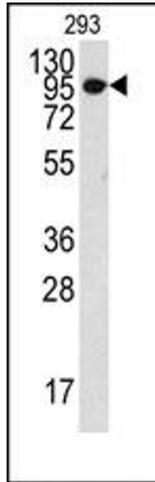


Image 1.

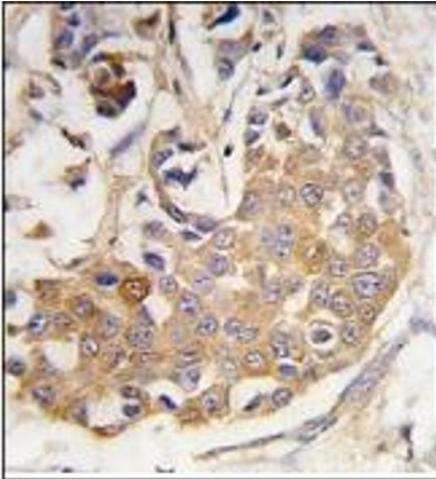


Image 2.