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Datasheet for ABIN7434725
anti-COL10 antibody (AA 547-680)

3 Images

Overview

Quantity:	100 µL
Target:	COL10
Binding Specificity:	AA 547-680
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This COL10 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Purpose:	Polyclonal Antibody to Collagen Type X (COL10)
Immunogen:	Recombinant Collagen Type X (COL10) corresponding to Thr547~Met680 with N-terminal His Tag
Isotype:	IgG
Specificity:	The antibody is a rabbit polyclonal antibody raised against COL10. It has been selected for its ability to recognize COL10 in immunohistochemical staining and western blotting.
Cross-Reactivity:	Mouse, Rat
Purification:	Antigen-specific affinity chromatography followed by Protein A affinity chromatography

Target Details

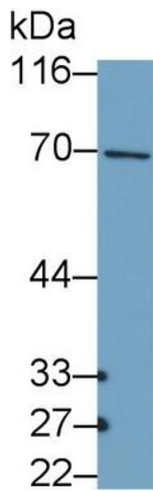
Target:	COL10
Alternative Name:	Collagen Type X (COL10 Products)
Background:	COL10A1, COL10-A1, Schmid Metaphyseal Chondrodysplasia, Collagen Alpha-1(X)chain

Application Details

Application Notes:	Western blotting: 0.5-2 µg/mL Immunohistochemistry: 5-20 µg/mL Immunocytochemistry: 5-20 µg/mL Optimal working dilutions must be determined by end user.
Comment:	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Restrictions:	For Research Use only

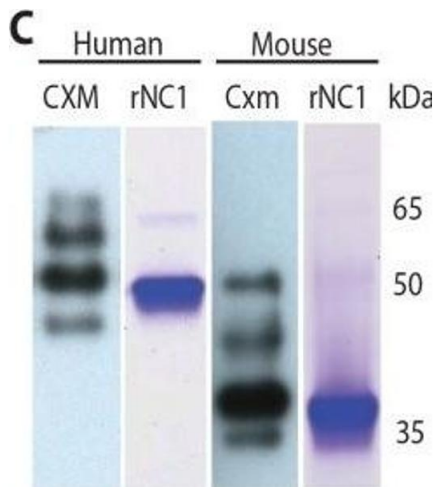
Handling

Format:	Liquid
Buffer:	PBS, pH 7.4, containing 0.02 % Sodium azide, 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for frequent use. Stored at -20°C in a manual defrost freezer for two year without detectable loss of activity. Avoid repeated freeze-thaw cycles.
Expiry Date:	24 months



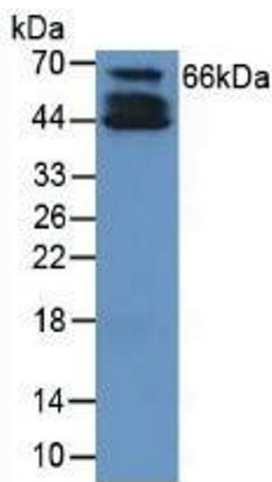
Western Blotting

Image 1. Detection of COL10 in MCF7 cell lysate using Polyclonal Antibody to Collagen Type X (COL10)



Western Blotting

Image 2. Marker decreases with age and is detected in human urine and mouse blood. Western blots of CXM aptoprecipitated with SOMA1 and probed with X34 mAb from (A) serum of individuals of increasing ages (0 year, umbilical cord serum) or (B) matched urine and serum samples from a 2-month-old infant (Vol, volume of sample, Exp, exposure time for autoradiography). (C) Aptoprecipitated trimeric markers from human serum (CXM) or mouse serum (Cxm) probed with pAbs raised against their respective recombinant NC1 domains and compared to Coomassiestained gels of the same recombinant proteins (rNC1). - figure provided by CiteAb. Source: PMID29212713



Western Blotting

Image 3. Detection of COL10 in Human Cartilage Tissue using Polyclonal Antibody to Collagen Type X (COL10)