

Datasheet for ABIN135046
anti-Collagen Type I antibody

8 Images

69 Publications

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Overview

Quantity:	0.2 mg
Target:	Collagen Type I (COL1)
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This Collagen Type I antibody is un-conjugated
Application:	ELISA

Product Details

Isotype:	IgG
Specificity:	Reacts with conformational determinants on type I collagen Referenced species reactivities include - Human 1-5,10,20,26,27,29,31-34 Chicken 17 Hamster 11,18 Mouse 24,27,28 Chinchilla 19 Porcine 5,21 Rat 5,13-15,23,25,27,35 Elephant 8 Rabbit 16,30 Bovine 6,20 Feline 9 Sheep 7 Canine 5,12 Guinea Pig 16 Tree Shrew 22
Cross-Reactivity (Details):	Exhibits < 10 % cross reactivity with collagen type II, III, IV, V and VI. The antibody has not been tested for reactivity with other ECM proteins (e.g., laminin, fibronectin).
Characteristics:	Goat Anti-Type I Collagen-UNLB
Purification:	Purification Method: Affinity chromatography on type I collagen covalently linked to agarose.

Target Details

Target:	Collagen Type I (COL1)
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Target Details

Alternative Name: Type I Collagen ([COL1 Products](#))

Application Details

Application Notes:

- **Applications:** Quality tested applications include - ELISA , FLISA
- Other referenced applications include - IHC-PS , IHC-FS , ICC , EM , FC , WB , IP
- **Working Dilutions:** ELISA BIOT conjugate 1:1,000 - 1:4,000 FLISA FITC and AF488 conjugates 1:200 - 1:400

Sample Volume: 0,5 mL

Restrictions: For Research Use only

Handling

Concentration: 0.4 mg/mL

Buffer: 0.2 mg of purified immunoglobulin in 0.5 mL of borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added

Preservative: Without preservative

Handling Advice: Each reagent is stable for the period shown on the bottle label if stored as directed.

Storage: 4 °C

Storage Comment: Store at 2-8°C

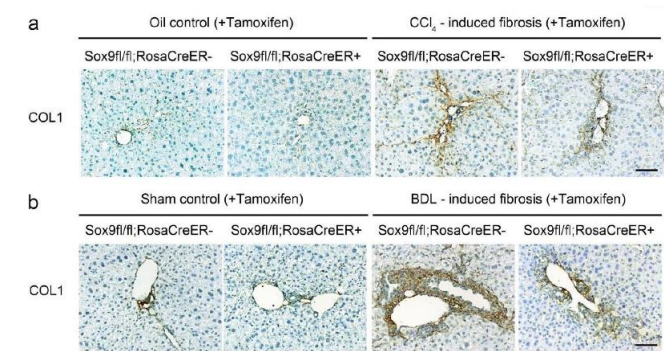
Publications

Product cited in: Welc, Flores, Wehling-Henricks, Ramos, Wang, Bertoni, Tidball: "Targeting a therapeutic LIF transgene to muscle via the immune system ameliorates muscular dystrophy." in: **Nature communications**, Vol. 10, Issue 1, pp. 2788, (2019) ([PubMed](#)).

Finno, Gianino, Perumbakkam, Williams, Bordbari, Gardner, Burns, Peng, Durward-Akhurst, Valberg: "A missense mutation in MYH1 is associated with susceptibility to immune-mediated myositis in Quarter Horses." in: **Skeletal muscle**, Vol. 8, Issue 1, pp. 7, (2018) ([PubMed](#)).

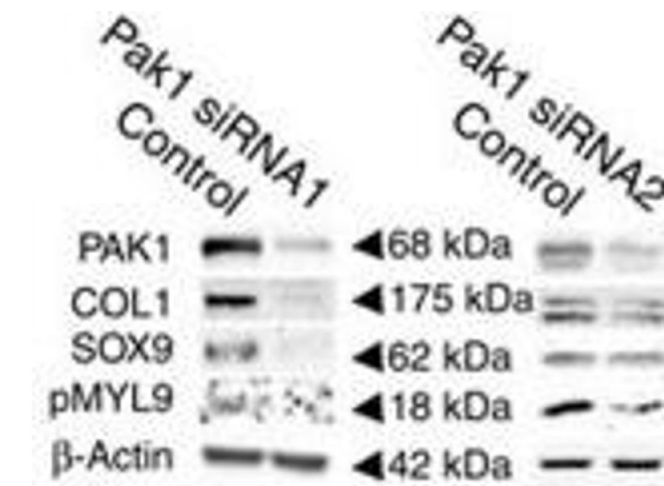
Huang, Ge, Izzi, Greenspan: "α3 Chains of type V collagen regulate breast tumour growth via glypican-1." in: **Nature communications**, Vol. 8, pp. 14351, (2018) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



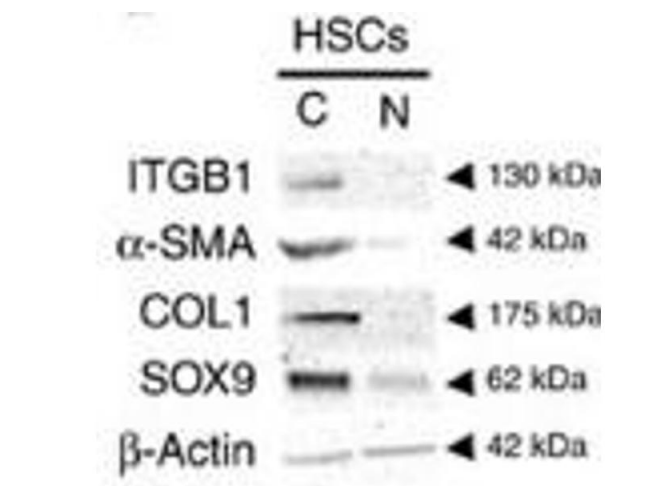
Immunohistochemistry

Image 1. Characterisation of COL1 expression in control and Sox9-null animals following liver fibrosis induction using ABIN135046. (a-b) Immunohistochemistry for COL1 (brown) in control and Sox9-null animals following fibrosis induction by CCl₄ (a) and BDL (b). Minimal COL1 is present in control animals without fibrosis shown by olive oil treatment (a) or sham operation (b) but increased and localized to regions of scar following fibrosis induction (a-b). Sox9-null animals show greatly reduced COL1 expression. All mice were treated with tamoxifen (Tam) (also see Figure 3). Size bar = 50µm. Source: PMC5709769



Western Blotting

Image 2. Decreases in the levels of activated HSC markers, SOX9, COL1 and phosphoMyI9 (PMYL9) following PAK-1 abrogation by siRNA1 in activated rat HSCs relative to their respective scrambled control levels. Representative immunoblot is shown in here. Source: PMC4992158



Western Blotting

Image 3. Activated mouse HSCs ('Control') show decreased protein levels for α-SMA, COL1 and SOX9 by immunoblotting following the loss of integrin beta-1 ('Itgb1-null'). Quantification from n≥3 experiments in c and example immunoblots shown in d. Source: PMC4992158

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN135046.