Cohesion BIOSCIENCES

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Product Data Sheet

Anti-Collagen 1 alpha 1 Antibody

Catalog #	Source	Reactivity	Applications
CPA3566	Rabbit	H, M, R, B, D, Rb	WB, IF/IC

Description	Rabbit polyclonal antibody to Collagen 1 alpha 1
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Collagen 1 alpha 1. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of Collagen 1 alpha 1 protein.
Clonality	Polyclonal
Conjugation	
Form	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Dilution	WB (1/500 - 1/1000), IF/IC (1/50 - 1/200)
Gene Symbol	COL1A1
Alternative Names	Collagen alpha-1(I) chain; Alpha-1 type I collagen
Entrez Gene	1277 (Human); 12842 (Mouse); 29393 (Rat)
SwissProt	P02452 (Human); P11087 (Mouse); P02454 (Rat)
Storage/Stability	Shipped at 4°C. Upon delivery aliquot and store at -20°C for one year. Avoid freeze/thaw cycles.

Application key: E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

Species reactivity key: H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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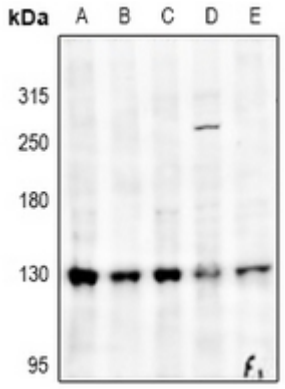
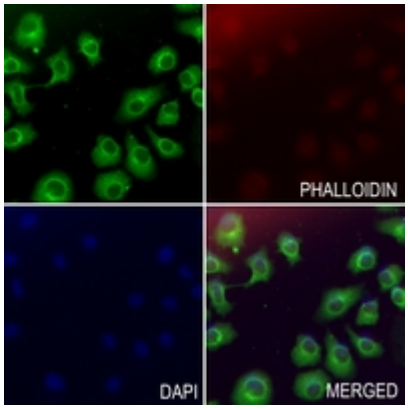


Western blot analysis of Collagen 1 alpha 1 expression in EC9706 (A), A375 (B), SGC7901 (C), Hela (D), HEK293T (E) whole cell lysates. (Predicted band size: 138 kD; Observed band size: 130 kD)



Immunofluorescent analysis of Collagen 1 alpha 1 staining in SGC7901 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF555 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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