

iFluor™ 488 Conjugated Anti-Collagen VI Antibody [SD83-03] HA720155F



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	IF-Cell, IF-Tissue
Molecular Wt:	Predicted band size: 109 kDa
Clone number:	SD83-03

Description: This antibody is well suited to detect extracellular matrix proteins in normal as well as disease state tissues. Disruption of tissue organization is the hallmark of neoplasia. Malignant lesions can be distinguished from benign by examining the breakdown of basement membranes and loss of 3-dimensional architecture. Malignant cells are presumed to use matrix metalloproteases to degrade barriers created by the extracellular matrix which then allows metastasis to occur. Collagenases, stomelysins and gelatinases can collectively degrade all of the various components of the extracellular matrix, including fibrillar and non-fibrillar collagens and basement membrane glycoproteins.

Conjugate: iFluor™ 488, Ex: 491nm; Em: 516nm.

Immunogen: Recombinant protein within Human Collagen VI aa 17-255 / 1,028.

Positive control: Hela, mouse colon tissue.

Subcellular location: Extracellular matrix.

Database links: SwissProt: P12109 Human | P12110 Human | P12111 Human | Q02788 Mouse | Q04857 Mouse

Recommended Dilutions:

IF-Cell	1:100
IF-Tissue	1:50

Storage Buffer: Preservative: 0.02% Sodium azide Constituents: 30% Glycerol, 1% BSA, 68.98% PBS

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn


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Images

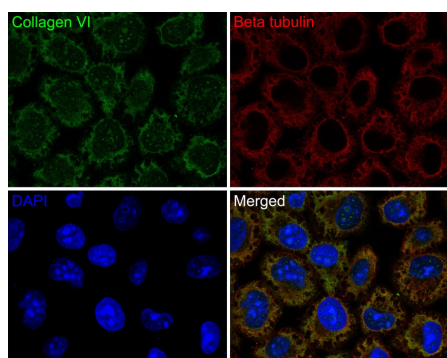


Fig1: Immunocytochemistry analysis of HeLa cells labeling Collagen VI with Rabbit anti-Collagen VI antibody (HA720155F) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes, and then blocked with 2% normal goat serum for 1 hour at 37 °C. Cells were then incubated with Rabbit anti-Collagen VI antibody (HA720155F) at 1/100 dilution in 2% normal goat serum overnight at 4 °C. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/200 dilution overnight at +4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) were used as the secondary antibody at 1/800 dilution.

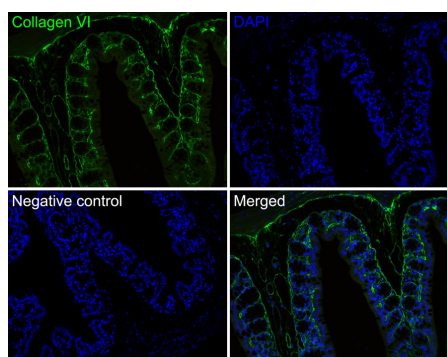


Fig2: Immunofluorescence analysis of paraffin-embedded mouse colon tissue labeling Collagen VI (HA720155F).

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS. And then probed with the primary antibody Collagen VI (HA720155F, iFluor™ 488) at 1/50 dilution overnight at 4 °C, washed with PBS. DAPI was used as nuclear counterstain.

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Kristofik N et al. Impaired von Willebrand factor adhesion and platelet response in thrombospondin-2 knockout mice. *Blood* 128:1642-50 (2016).
2. Okawa S et al. Lipopolysaccharide induces expression of collagen VI in the rat lung. *J Toxicol Pathol* 28:37-41 (2015).

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