

# Anti-Collagen IV Antibody

## HA500197



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IF-Cell
<b>Molecular Wt:</b>	161 kDa

**Description:** This gene encodes a type IV collagen alpha protein. Type IV collagen proteins are integral components of basement membranes. This gene shares a bidirectional promoter with a paralogous gene on the opposite strand. The protein consists of an amino-terminal 7S domain, a triple-helix forming collagenous domain, and a carboxy-terminal non-collagenous domain. It functions as part of a heterotrimer and interacts with other extracellular matrix components such as perlecan, proteoglycans, and laminins. In addition, proteolytic cleavage of the non-collagenous carboxy-terminal domain results in a biologically active fragment known as arresten, which has anti-angiogenic and tumor suppressor properties. Mutations in this gene cause porencephaly, cerebrovascular disease, and renal and muscular defects. Alternative splicing results in multiple transcript variants.

**Immunogen:** Recombinant protein within C-terminal human Collagen IV.

**Positive control:** MCF-7 cell lysate, SH-SY5Y cell lysate, SH-SY5Y.

**Subcellular location:** Basement membrane.

**Database links:** SwissProt: P02462 Human

**Recommended Dilutions:**

<b>WB</b>	1:500-1:2,000
<b>IF-Cell</b>	1:50-1:200

**Storage Buffer:** 1\*TBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Immunogen affinity purified.

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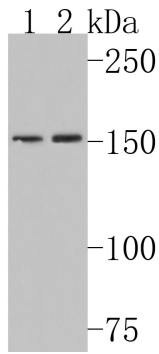
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## Images

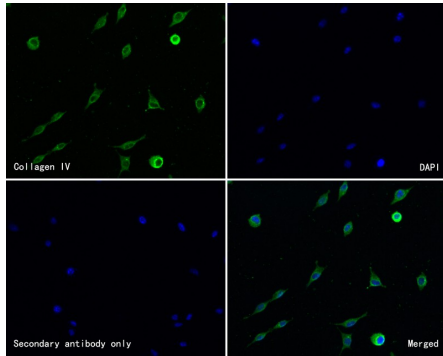


**Fig1:** Western blot analysis of Collagen IV on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (HA500197, 1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:200,000 dilution was used for 1 hour at room temperature.

**Positive control:**

Lane 1: MCF-7 cell lysate

Lane 2: SH-SY5Y cell lysate



**Fig2:** ICC staining of Collagen IV in SH-SY5Y cells (green). Methanol fixed cells were blocked with 10% negative goat serum for 15 minutes at room temperature. Cells were probed with the primary antibody (HA500197, 1/50) for 1 hour at room temperature, washed with PBS. Alexa Fluor®488 conjugate-Goat anti-Rabbit IgG was used as the secondary antibody at 1/1,000 dilution. The nuclear counter stain is DAPI (blue).

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

## Background References

1. Itai T. et. al. Prenatal clinical manifestations in individuals with COL4A1/2 variants. J Med Genet. 2020 Jul
2. Wang T. et. al. COL4A1 promotes the growth and metastasis of hepatocellular carcinoma cells by activating FAK-Src signaling. J Exp Clin Cancer Res. 2020 Aug

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