Product datasheet

Anti-Collagen Type III/COL3A1 Antibody

Catalog Number: *PB0125*

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Basic Information

Product Name	Anti-Collagen Type III/COL3A1 Antibody
Gene Name	COL3A1
Source	Rabbit
Isotype	IgG
Species Reactivity	human
Tested Application	WB
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Collagen III(1200-1221aa VGAAAIAGIGGEKAGGFAPYYG), different from the related mouse sequence by four amino acids, and from the related rat sequence by five amino acids.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	150KD-200KD
Dilution Ratios	Western blot(WB):1:500-2000

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

COL3A1, also called EDS4A or Collagen alpha-1(III), is a protein that in humans is encoded by the COL3A1 gene, it is mapped to 2q32.2. COL3A1 chain is a fibrillar-forming collagen comprising 3 alpha-1(III) chains and is expressed in early embryos and throughout embryogenesis. In adult, COL3A1 is a major component of the extracellular matrix in a variety of internal organs and skin. COL3A1 is also a fibrous scleroprotein in bone, cartilage, dentin, tendon, bone marrow stroma and other connective tissue. It is involved in regulation of cortical development, and it Is the major ligand of GPR56 in the developing brain.COL3A1 binding to GPR56 can inhibit neuronal migration and activate the RhoA pathway by coupling GPR56 to GNA13 and possibly GNA12

Selected Validation Data

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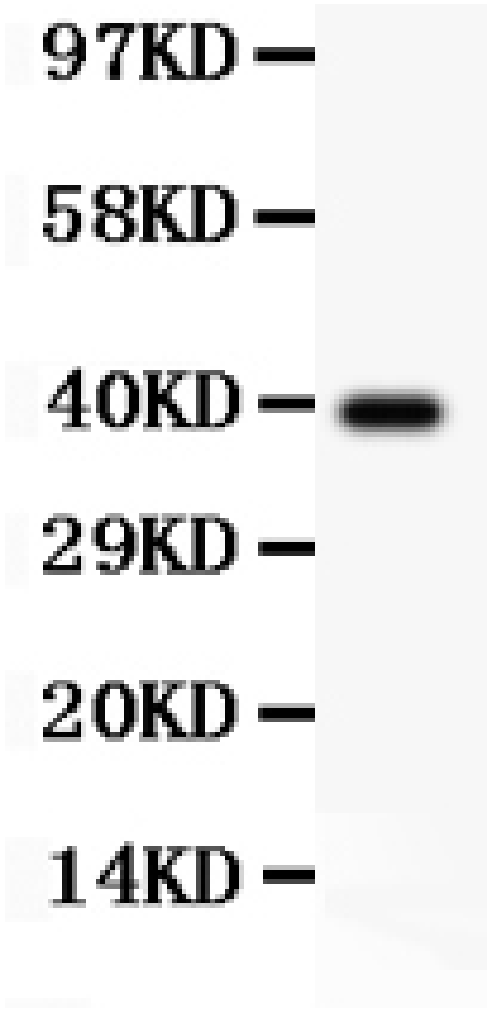

Figure 1. Western blot analysis of Anti-COL3A1 antibody (PB0125). The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: Recombinant human collagen Ⅲ protein,Use rabbit Anti-COL3A1 1:1000, probed with a goat Anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002).