Cleaved COL3A1 (Gly1221) Rabbit pAb

CatalogNo: YC0050 **Orthogonal Validated**

Key Features

Host Species
- Rabbit

Reactivity
- Human,Rat,Mouse,

Applications
- WB,ELISA

MW
- 95kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

ELISA 1:10000
WB 1:1000-1:5000
Not yet tested in other applications.

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human Collagen III alpha1. AA range:1172-1221
Specificity	Cleaved-COL3A1 (G1221) Polyclonal Antibody detects endogenous levels of fragment of activated COL3A1 protein resulting from cleavage adjacent to G1221.

Target Information

Gene name COL3A1

Protein Name Collagen alpha-1(III) chain

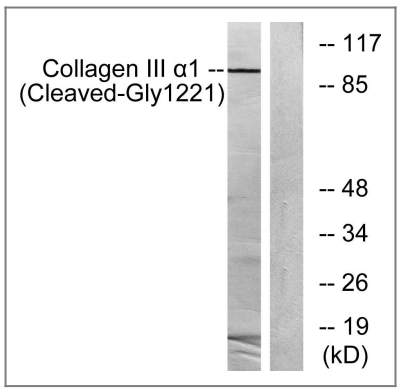
Organism	Gene ID	UniProt ID
Human	1281;	P02461;
Mouse		P08121;

Cellular Localization Secreted, extracellular space, extracellular matrix .

Tissue specificity Colon carcinoma,Liver,Placenta,Skin fibroblast,

Function Disease:Defects in COL3A1 are a cause of Ehlers-Danlos syndrome type 3 (EDS3) [MIM:130020]; also known as benign hypermobility syndrome. EDS is a connective tissue disorder characterized by hyperextensible skin, atrophic cutaneous scars due to tissue fragility and joint hyperlaxity. EDS3 is a form of Ehlers-Danlos syndrome characterized by marked joint hyperextensibility without skeletal deformity.,Disease:Defects in COL3A1 are a cause of susceptibility to aortic aneurysm abdominal (AAA) [MIM:100070]. AAA is a common multifactorial disorder characterized by permanent dilation of the abdominal aorta, usually due to degenerative changes in the aortic wall. Histologically, AAA is characterized by signs of chronic inflammation, destructive remodeling of the extracellular matrix, and depletion of vascular smooth muscle cells.,Disease:Defects in COL3A1 are the cause of Ehlers-Danlos syndrome type 4 (EDS4) [MIM:130050]. EDS is a connective tissue disorder characterized by hyperextensible skin, atrophic cutaneous scars due to tissue fragility and joint hyperlaxity. EDS4 is the most severe form of the disease. It is characterized by the joint and dermal manifestations as in other forms of the syndrome, characteristic facial features (acrogeria) in most patients, and by proneness to spontaneous rupture of bowel and large arteries. The vascular complications may affect all anatomical areas.,Function:Collagen type III occurs in most soft connective tissues along with type I collagen.,online information:Collagen type III alpha-1 chain mutations,online information:Type-III collagen entry,PTM:O-linked glycan consists of a Glc-Gal disaccharide bound to the oxygen atom of a post-translationally added hydroxyl group.,PTM:Proline residues at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains.,similarity:Belongs to the fibrillar collagen family.,similarity:Contains 1 VWFC domain.,subunit:Trimers of identical alpha 1(III) chains. The chains are linked to each other by interchain disulfide bonds. Trimers are also cross-linked via hydroxylysines.,

Validation Data



Western blot analysis of lysates from A549 cells, treated with etoposide 25uM 24h, using Collagen III alpha1 (Cleaved-Gly1221) Antibody. The lane on the right is blocked with the synthesized peptide.

Contact information

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Please scan the QR code to access additional product information:
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