COL5A2 Rabbit pAb

CatalogNo: YT5533

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse

Applications
- WB,IHC,IF,ELISA

MW
- 145kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-1:2000
IHC: 1:100-1:300
ELISA 1:20000
IF 1:50-200

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 the N-terminal region of human COL5A2. AA range:1-50
Specificity	COL5A2 Polyclonal Antibody detects endogenous levels of COL5A2 protein.

Target Information

Gene name COL5A2

Protein Name Collagen alpha-2(V) chain

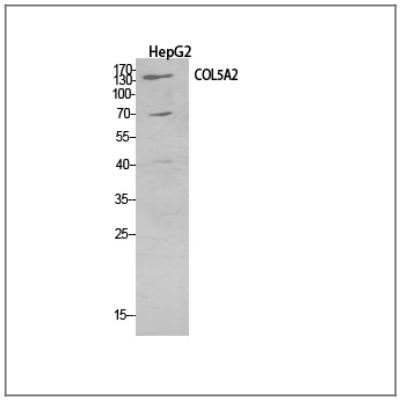
Organism	Gene ID	UniProt ID
Human	1290;	P05997;
Mouse	12832;	Q3U962;

Cellular Localization Secreted, extracellular space, extracellular matrix .

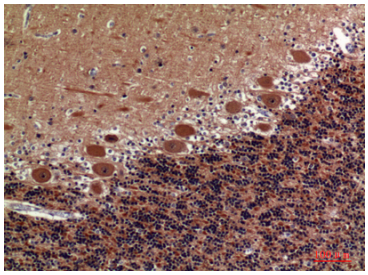
Tissue specificity Bone,Brain,Chondrosarcoma,Placenta,Skin,

Function Disease:Defects in COL5A2 are a cause of Ehlers-Danlos syndrome type 1 (EDS1) [MIM:130000]; also known as Ehlers-Danlos syndrome gravis or severe classic type Ehlers-Danlos syndrome. EDS is a connective tissue disorder characterized by hyperextensible skin, atrophic cutaneous scars due to tissue fragility and joint hyperlaxity. EDS1 is the severe form of classic Ehlers-Danlos syndrome.,Disease:Defects in COL5A2 are a cause of Ehlers-Danlos syndrome type 2 (EDS2) [MIM:130010]; also known as Ehlers-Danlos syndrome mitis or mild classic type Ehlers Danlos syndrome.,Disease:Genetic variation in COL5A2 is associated with spontaneous cervical artery dissections (sCAD). sCAD are an important cause of stroke among young and middle-aged patients. Ultrastructural abnormalities are observed in skin biopsies of most patients with sCAD. Major findings included enlarged and irregular collagen fibrils and pronounced elastic fibers fragmentation.,Function:Type V collagen is a member of group I collagen (fibrillar forming collagen). It is a minor connective tissue component of nearly ubiquitous distribution. Type V collagen binds to DNA, heparan sulfate, thrombospondin, heparin, and insulin. Type V collagen is a key determinant in the assembly of tissue-specific matrices.,PTM:Prolines 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 two alpha 1(V) and one alpha 2(V) chains in most tissues and trimers of one alpha 1(V), one alpha 2(V), and one alpha 3(V) chains in placenta.,

Validation Data



Western Blot analysis of HepG2 cells using COL5A2 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:100

Contact information

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Please scan the QR code to access additional product information:
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