



COL6A2 Monoclonal Antibody

Catalog No	YP-mAb-16994
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	COL6A2
Immunogen	The antiserum was produced against synthesized peptide derived from human Collagen VI alpha2. AA range:691-740
Specificity	COL6A2 Monoclonal Antibody detects endogenous levels of COL6A2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Collagen alpha 2(VI) chain;Collagen alpha-2(VI) chain;Collagen Type VI; COL6A2
Observed Band	109kD
Calculated Molecular Weight	109kD
Cell Pathway	Secreted, extracellular space, extracellular matrix . Membrane ; Peripheral membrane protein . Recruited on membranes by CSPG4.
Tissue Specificity	Fibroblast,Kidney,Liver,Ovary,Placenta,Uterus,
Function	disease:Defects in COL6A2 are a cause of Bethlem myopathy (BM) [MIM:158810]. BM is a rare autosomal dominant proximal myopathy characterized by early childhood onset (complete penetrance by the age of 5) and joint contractures most frequently affecting the elbows and ankles., disease:Defects in COL6A2 are a cause of Ullrich congenital muscular dystrophy (UCMD) [MIM:254090]; also known as Ullrich scleroatonic muscular dystrophy. UCMD is an autosomal recessive congenital myopathy characterized by muscle weakness and multiple joint contractures, generally noted at birth or early infancy. The clinical course is more severe than in Bethlem myopathy.,



function: Collagen VI acts as a cell-binding protein., 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 type VI collagen family., similarity: Contains 3

Background

This gene encodes one of the three alpha chains of type VI collagen, a beaded filament collagen found in most connective tissues. The product of this gene contains several domains similar to von Willebrand Factor type A domains. These domains have been shown to bind extracellular matrix proteins, an interaction that explains the importance of this collagen in organizing matrix components. Mutations in this gene are associated with Bethlem myopathy and Ullrich scleroatonic muscular dystrophy. Three transcript variants have been identified for this gene. [provided by RefSeq, Jul 2008],

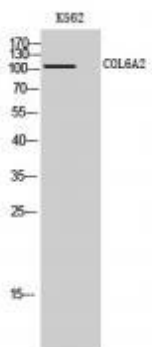
matters needing attention

Avoid repeated freezing and thawing!

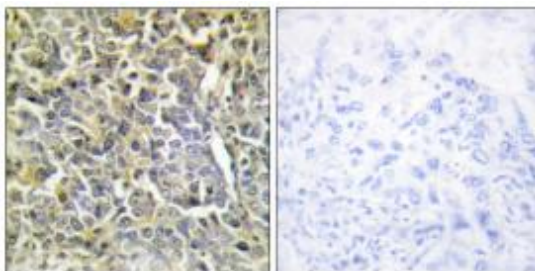
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

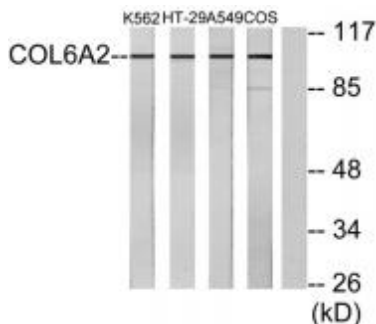
Products Images



Western Blot analysis of K562 cells using COL6A2 Monoclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using Collagen VI alpha2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from K562, A549, HT-29, and COS7 cells, using Collagen VI alpha2 Antibody. The lane on the right is blocked with the synthesized peptide.