

For Research Use Only

COL6A1 Monoclonal antibody

Catalog Number: 66824-1-Ig



Basic Information

Catalog Number: 66824-1-Ig	GenBank Accession Number: BC052575	Purification Method: Protein A purification
Size: 150ul , Concentration: 1400 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1291	CloneNo.: 3H10B1
Source: Mouse	UNIPROT ID: P12109	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:1000-1:4000 IF-P 1:200-1:800
Isotype: IgG2a	Full Name: collagen, type VI, alpha 1	
Immunogen Catalog Number: AG11809	Calculated MW: 1028 aa, 109 kDa	
	Observed MW: 140-150 kDa	

Applications

Tested Applications:
WB, IHC, IF-P, ELISA

Species Specificity:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human skeletal muscle tissue, human heart tissue

IHC : human liver cancer tissue, human colon cancer tissue

IF-P : human liver cancer tissue,

Background Information

Type VI Collagen is a major structural component of microfibrils. Type VI Collagen was found to be present throughout the connective tissue and in the extracellular matrix of cultured fibroblasts (PMID: 6723253). It is a heterotrimer composed of three different chains: alpha-1(VI), alpha-2(VI), and alpha-3(VI) or alpha-5(VI) or alpha-6(VI). The alpha-1(VI) chain is encoded by COL6A1 gene. Mutations in this gene result in Bethlem myopathy and Ullrich congenital muscular dystrophy.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

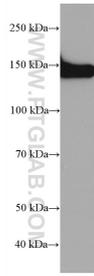
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

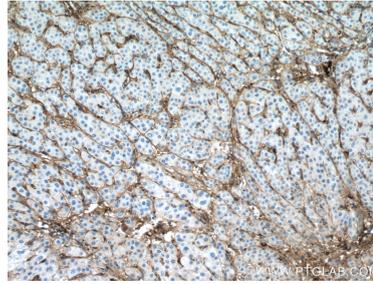
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

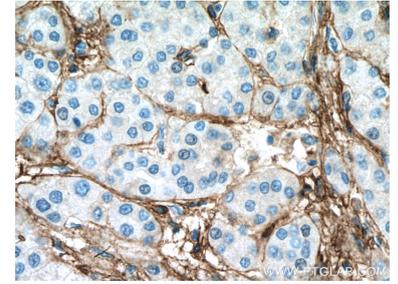
Selected Validation Data



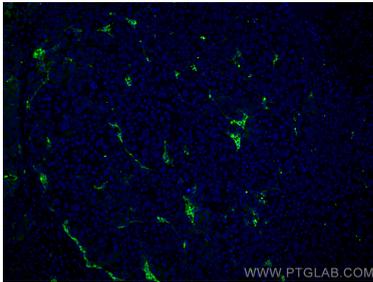
human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 66824-1-Ig (Collagen Type VI antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



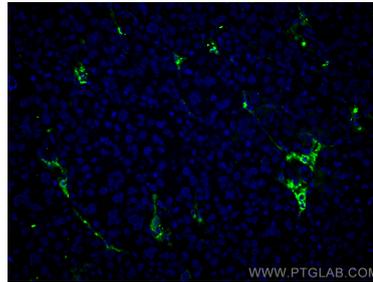
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66824-1-Ig (Collagen Type VI antibody) at dilution of 1:2000 (under 10x Lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



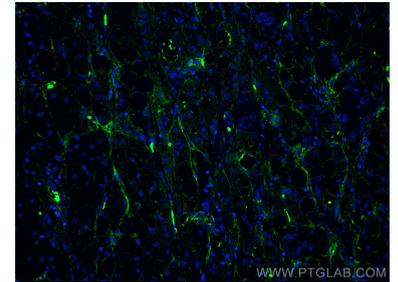
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66824-1-Ig (Collagen Type VI antibody) at dilution of 1:2000 (under 40x Lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using Collagen Type VI antibody (66824-1-Ig, Clone: 3H10B1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using Collagen Type VI antibody (66824-1-Ig, Clone: 3H10B1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using Collagen Type VI antibody (66824-1-Ig, Clone: 3H10B1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).