

For Research Use Only

COL6A1 Polyclonal antibody

Catalog Number: 17023-1-AP

Featured Product

38 Publications



Basic Information

Catalog Number:

17023-1-AP

Size:

150ul, Concentration: 750 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG10288

GenBank Accession Number:

BC052575

GeneID (NCBI):

1291

UNIPROT ID:

P12109

Full Name:

collagen, type VI, alpha 1

Calculated MW:

1028 aa, 109 kDa

Observed MW:

140 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:4000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:300-1:1200

IF-P: 1:50-1:500

IF: 1:20-1:200

Applications

Tested Applications:

WB, IHC, IF, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, zebrafish, sheep

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: mouse heart tissue, HEK-293T cells, human heart tissue, human skeletal muscle tissue, rat heart tissue

IP: mouse heart tissue,

IHC: human colon tissue, human liver tissue, mouse liver tissue, human heart tissue, human hepatocirrhosis tissue, human kidney tissue, human placenta tissue, human testis tissue, human spleen tissue, human lung tissue, human ovary tissue, human skin cancer tissue

IF-P: human colon tissue, mouse skeletal muscle tissue

IF: mouse skeletal muscle 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Fangning Wan	26317545	Oncotarget	IHC
Paez-Cortez Jesus J	24040256	PLoS One	
Meng-Han Zhang	36273780	Respir Physiol Neurobiol	WB

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

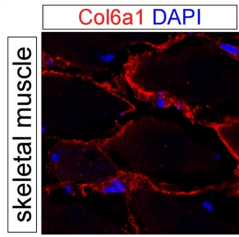
For technical support and original validation data for this product please contact:

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

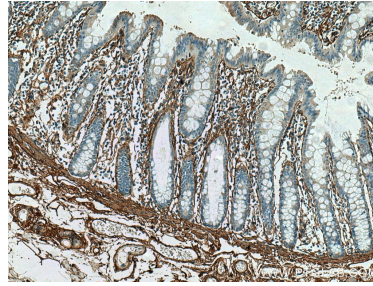
E: proteintech@ptglab.com
W: ptglab.com

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

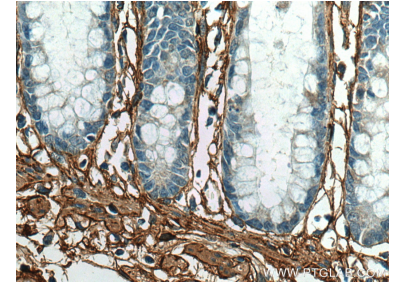
Selected Validation Data



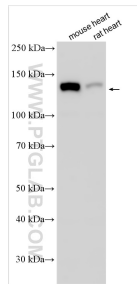
IF result of anti-COL6A1 (17023-1-AP, 1:500) with PFA fixed mouse skeletal muscle tissue by Dr. Daniel Kopinke.



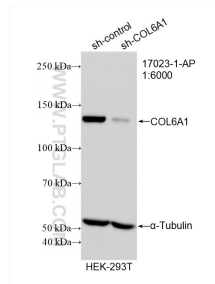
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 17023-1-AP (Collagen Type VI antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



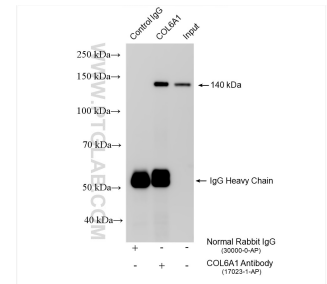
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 17023-1-AP (Collagen Type VI antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



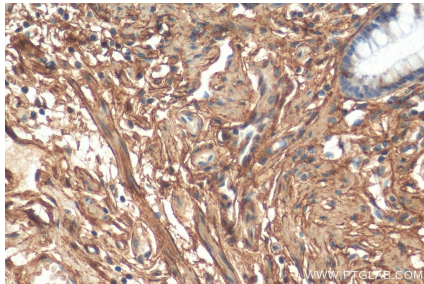
Various lysates were subjected to SDS PAGE followed by western blot with 17023-1-AP (Collagen Type VI antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



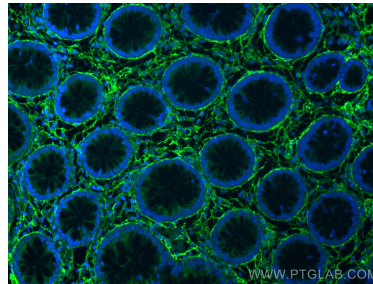
WB result of Collagen Type VI antibody (17023-1-AP; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Collagen Type VI transfected HEK-293T cells.



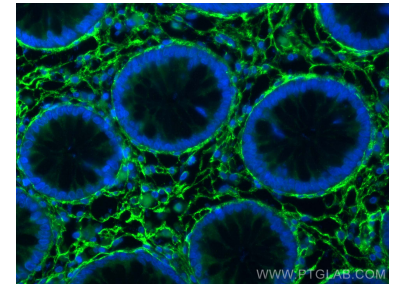
IP result of anti-Collagen Type VI (IP:17023-1-AP, 4ug; Detection:17023-1-AP 1:2000) with mouse heart tissue lysate 1050 ug.



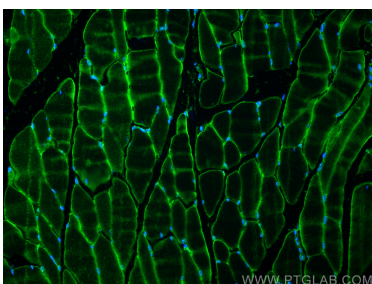
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 17023-1-AP (Collagen Type VI antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human colon tissue using Collagen Type VI antibody (17023-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human colon tissue using Collagen Type VI antibody (17023-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse skeletal muscle tissue using Collagen Type VI antibody (17023-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).