

COL4A3 Rabbit Polyclonal Antibody

Catalog No: #54194



Package Size: #54194-1 50ul #54194-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

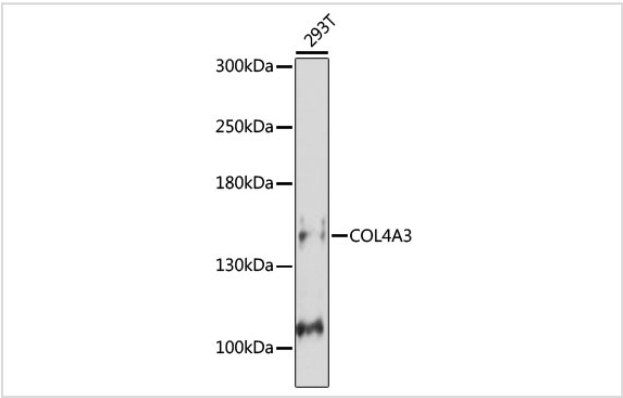
Description

Product Name	COL4A3 Rabbit Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB,IF
Species Reactivity	Human;Mouse;Rat
Immunogen Description	A synthetic peptide of human COL4A3 (NP_000082.2).
Conjugates	Unconjugated
Other Names	COL4A3
Accession No.	Swiss Prot:Q01955GeneID:1285
Calculated MW	135kDa/142kDa/158kDa/161kDa
SDS-PAGE MW	162kDa
Formulation	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Storage	Store at -20°C. Avoid freeze / thaw cycles.

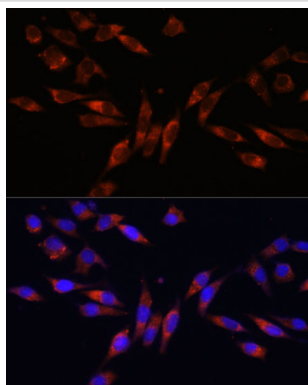
Application Details

WB 1:500 - 1:2000IF 1:50 - 1:200

Images



Western blot analysis of extracts of 293T cells, using COL4A3 at 1:1000 dilution.



Immunofluorescence analysis of L929 cells using COL4A3 at dilution of 1:100. Blue: DAPI for nuclear staining.

Background

Type IV collagen, the major structural component of basement membranes, is a multimeric protein composed of 3 alpha subunits. These subunits are encoded by 6 different genes, alpha 1 through alpha 6, each of which can form a triple helix structure with 2 other subunits to form type IV collagen. This gene encodes alpha 3. In the Goodpasture syndrome, autoantibodies bind to the collagen molecules in the basement membranes of alveoli and glomeruli. The epitopes that elicit these autoantibodies are localized largely to the non-collagenous C-terminal domain of the protein. A specific kinase phosphorylates amino acids in this same C-terminal region and the expression of this kinase is upregulated during pathogenesis. This gene is also linked to an autosomal recessive form of Alport syndrome. The mutations contributing to this syndrome are also located within the exons that encode this C-terminal region. Like the other members of the type IV collagen gene family, this gene is organized in a head-to-head conformation with another type IV collagen gene so that each gene pair shares a common promoter.

Published Papers

el at., Blocking ACSL6 Compromises Autophagy via FLI1 β • Mediated Downregulation of COLs to Radiosensitize Lung Cancer. In Adv Sci (Weinh) on 2024 Oct by Wen Ding, Shijun Bao,et al..PMID:39206814, , (2024)

[PMID:39206814](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.