

Product datasheet

anti-Collagen Type IV rabbit polyclonal, serum

Short overview

Cat. No.	10760
Quantity	250 µl

Product description

Host	Rabbit
Antibody Type	Polyclonal
Immunogen	Isolated from human placenta
Formulation	Contains 0.09% sodium azide
UniprotID	P02462 (Human),P02463 (Mouse),F1MA59 (Rat)
Synonym	Collagen alpha-1(IV chain [Cleaved into: Arresten], COL4A1
Note	Centrifuge prior to opening
Conjugate	Unconjugated
Purification	Stabilized antiserum
Storage	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
Intended use	Research use only
Application	IHC
Reactivity	Human, Mouse, Rat

Applications

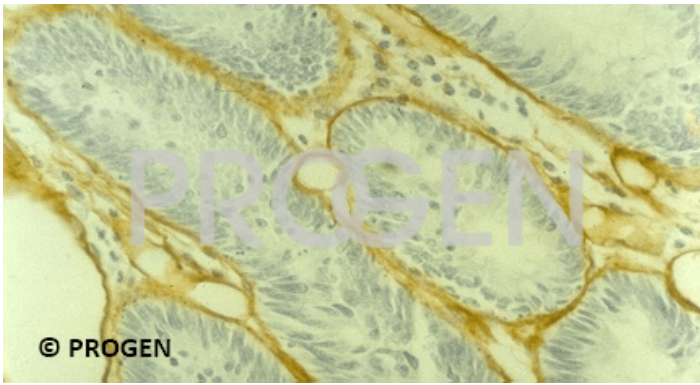
Immunohistochemistry (IHC) - frozen	1:50 - 1:100
Immunohistochemistry (IHC) - paraffin	1:50 - 1:100 (proteolytic treatment required)

Background

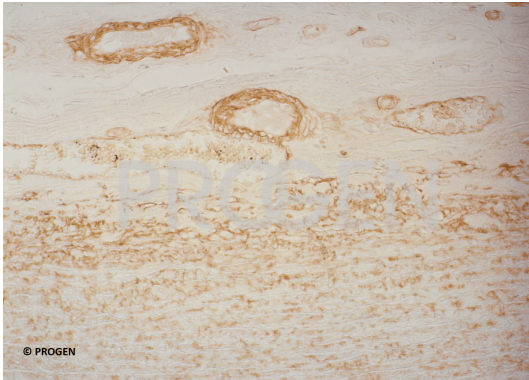
The antibody is reactive with collagen type IV of basement membranes, and shows a homogeneous staining pattern in all tissues. As neoplastic cells of invasive carcinomas often lack a continuous basement membrane, the antiserum is useful to distinguish between non-invasive and invasive lesions. Additionally, it can be used for the differentiation of bullous lesions in dermatopathology. In immunohistochemistry no cross-reactivity with other collagens at optimal dilutions. In immunoblotting, a slight cross-reactivity with collagen type V is observed.

Positive control: Skin, kidney.

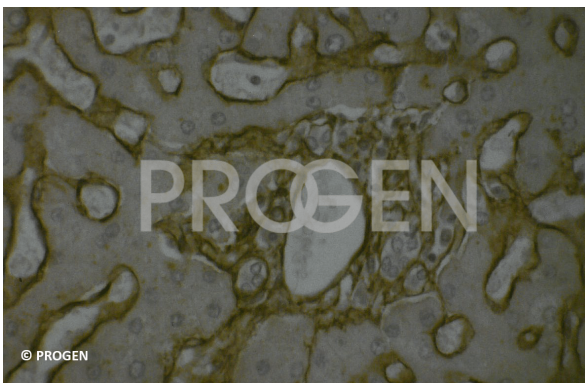
Product images



human Small Intestine (paraffin)



human Aorta



human Liver

References

Publication	Species	Application
Li, H. et al. RECK in Neural Precursor Cells Plays a Critical Role in Mouse Forebrain Angiogenesis. iScience. 19, 559-571 (2019)	mouse	IHC-IF (frozen)
Domke, L and Franke, W. The cell-cell junctions of mammalian testes..., Cell Tissue Res, 375, 451-482, (2019)	bovine	WB
Olaru, F. et al. Intracapillary immune complexes recruit and activate slan-expressing CD16+ monocytes in human lupus nephritis. JCI.Insight. 3, (2018).	mouse	IHC-IF (frozen)
Zahner, D. et al. Hepatitis B virus surface proteins accelerate cholestatic injury and tumor progression in Abcb4-knockout mice. Oncotarget. 8, 52560-52570 (2017).	mouse	IHC (paraffin)
Taromi, S. et al. Proteasome inhibitor bortezomib enhances the effect of standard chemotherapy in small cell lung cancer. Oncotarget. 8, 97061-97078 (2017).	human	IHC (paraffin)