Datasheet for ABIN678128

anti-COL4a3 antibody (AA 1571-1670)

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Overview

Quantity:	100 µL
Target:	COL4a3 (COL4A3)
Binding Specificity:	AA 1571-1670
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This COL4a3 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Tumstatin
Isotype:	IgG
Cross-Reactivity:	Mouse, Rat
Predicted Reactivity:	Human
Purification:	Purified by Protein A.

Target Details

Target:	COL4a3 (COL4A3)

Target Details

Alternative Name:	Tumstatin (COL4A3 Products)
Background:	Synonyms: Collagen alpha-3IV chain, Alpha 3 type IV collagen, Alpha3 type IV collagen, COL4A 3, COL4A3, Collagen IV alpha 3 polypeptide, Collagen type IV alpha 3 Goodpasture antigen, Collagen type IV alpha 3, Goodpasture antigen, OTTHUMP00000195044, Tumstatin, Col4a3, CO4A3_HUMAN. Background: COL4A3 (Collagen, type IV, alpha 3) belongs to the type IV collagen family. Type IV collagen is the major structural component of glomerular basement membranes (GBM), forming a 'chicken-wire' meshwork together with laminins, proteoglycans and entactin/nidogen. Type IV collagen 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. Tumstatin, a cleavage fragment corresponding to the collagen alpha 3(IV) NC1 domain, possesses both anti-angiogenic and anti-tumor cell activity.
Gene ID:	1285
Pathways:	Sensory Perception of Sound, Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

Handling

	handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

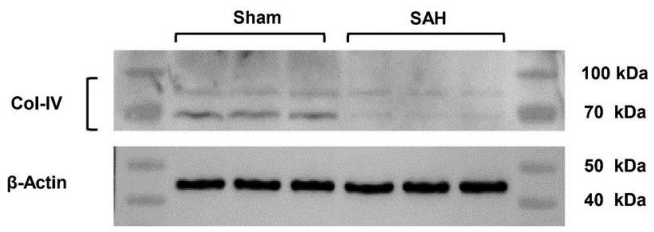
Publications

Product cited in:

Sun, Liu, Pei, Yao, Ma, Mu, Wang, Zhang, Yang, Wang, Xue, Zhai, Carare, Qin, Yan: "The impairment of intramural periarterial drainage in brain after subarachnoid hemorrhage." in: **Acta neuropathologica communications**, Vol. 10, Issue 1, pp. 187, (2022) (PubMed).

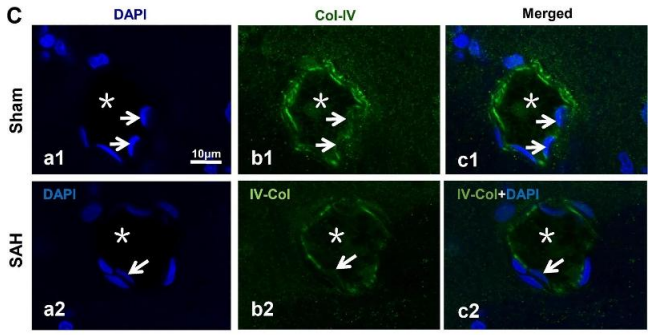
Yasuda, Fukui, Okada, Yamawaki: "T3 peptide, a fragment of tumstatin, stimulates proliferation and migration of cardiac fibroblasts through activation of Akt signaling pathway." in: **Naunyn-Schmiedeberg's archives of pharmacology**, Vol. 390, Issue 11, pp. 1135-1144, (2017) (PubMed).

Images



Western Blotting

Image 1. The expression of Col-IV after SAH. The level of Col-IV protein was significantly decreased in the SAH group compared to that of Sham group. Source: PMID36529767



Immunofluorescence

Image 2. The molecules involved in IPAD impairment after SAH. Immunofluorescence staining showed that after SAH, Col-IV decreased significantly. Source: PMID36529767