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Datasheet for ABIN3042755 anti-COL4A1 antibody (AA 1445-1669)

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Overview

Quantity:	100 µg
Target:	COL4A1
Binding Specificity:	AA 1445-1669
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This COL4A1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for Collagen alpha-1(IV) chain(COL4A1) detection. Tested with
	WB, IHC-P in Human.
Immunogen:	E.coli-derived human Collagen IV recombinant protein (Position: G1445-T1669). Human
	Collagen IV shares 97% amino acid (aa) sequence identity with mouse Collagen IV.
Isotype:	lgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Collagen alpha-1(IV) chain(COL4A1) detection. Tested with
	WB, IHC-P in Human.
	Gene Name: collagen, type IV, alpha 1
	Protein Name: Collagen alpha-1(IV) chain
Purification:	Immunogen affinity purified.

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Target:	COL4A1
Alternative Name:	COL4A1 (COL4A1 Products)
Background:	COL4A1, also known as ICH or Collagen alpha-1(IV), is a protein that in humans is encoded by
	the COL4A1 gene. It is mapped to 13q34. This gene encodes the major type IV alpha collagen
	chain of basement membranes. 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. COL4A1 binds to alpha-1/beta-1 integrin and
	inhibits migration, proliferation, and tube formation by endothelial cells. It is also a potential
	therapeutic candidate for targeting tumor angiogenesis.
	Synonyms: Arresten antibody Canstatin antibody C04A1_HUMAN antibody C0L4A1
	antibody COL4A1 NC1 domain antibody COL4A2 antibody COL4A3 antibody COL4A4
	antibody COL4A5 antibody Collagen Alpha 1(IV) Chain antibody Collagen Alpha 2(IV) Chain
	antibody collagen alpha-1(IV) chain antibody Collagen IV Alpha 1 Polypeptide antibody Collager
	IV Alpha 2 Polypeptide antibody Collagen Of Basement Membrane Alpha 1 Chain
	antibody Collagen Of Basement Membrane Alpha 2 Chain antibody Collagen Type IV Alpha 1
	antibody Collagen Type IV Alpha 2 antibody Collagen Type IV Alpha 3 antibody Collagen Type ۱
	Alpha 4 antibody Collagen Type IV Alpha 5 antibody DKFZp686I14213 antibody FLJ22259 antibody
Gene ID:	1282
JniProt:	P02462
^D athways:	Skeletal Muscle Fiber Development, Growth Factor Binding
Application Details	
Application Notes:	WB: Concentration: 0.1-0.5 μ g/mL, Tested Species: Human, The detection limit for Collagen IV
	is approximately 0.25 ng/lane under reducing conditions.
	IHC-P: Concentration: 0.5-1 μ g/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling
	the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of
	formalin/paraffin sections.
	Notes: Tested Species: Species with positive results. Other applications have not been tested.
	Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by
	ABIN921231 in IHC(P).

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Application Details

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 $\mu\text{g/mL}.$
Concentration:	500 μg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month.
	It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing
	and thawing.

Publications

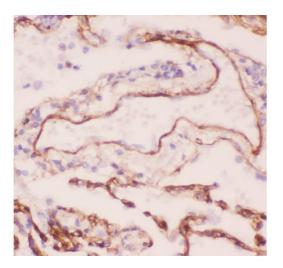
Product cited in:Zhang, Yan, Xu, Fang, Zhang, Zhang, Wu, Kong, Huang: "The recovery trajectory of adolescent
social defeat stress-induced behavioral, (1)H-MRS metabolites and myelin changes in Balb/c
mice." in: Scientific reports, Vol. 6, pp. 27906, (2018) (PubMed).

Sun, Hu, Xiong, Tu, Zhao, Chen, Song, Ye: "Enhanced expression of stem cell markers and drug resistance in sphere-forming non-small cell lung cancer cells." in: **International journal of clinical and experimental pathology**, Vol. 8, Issue 6, pp. 6287-300, (2016) (PubMed).

Yang, Gao, Zhang, Fang, Wu, Xu, Huang: "Changes in proinflammatory cytokines and white matter in chronically stressed rats." in: **Neuropsychiatric disease and treatment**, Vol. 11, pp. 597-607, (2015) (PubMed).

There are more publications referencing this product on: Product page

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- 97KD —
- 58KD —
- 40KD -
- 29KD -
- 20KD -
- 14KD -

Immunohistochemistry

Image 1. Anti-Collagen IV Picoband antibody, IHC(P): Human Lung Cancer Tissue

Western Blotting

Image 2. Anti-Collagen IV Picoband antibody, All lanes: Anti Collagen IV at 0.5ug/ml WB: Recombinant Human Collagen IV Protein 0.5ng Predicted bind size: 39KD Observed bind size: 39KD

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