abcam

ab270946

Anti-COL11A1 antibody [EPR24327-8]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR24327-8
Purification technique	Affinity purification Protein A
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/500
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information COL11A1

Function	May play an important role in fibrillogenesis by controlling lateral growth of collagen II fibrils.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

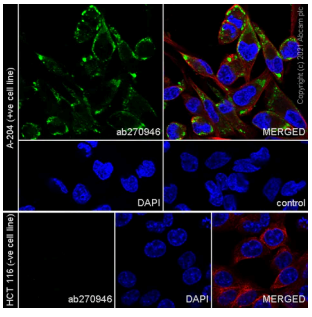
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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4 product images



Immunocytochemistry/ Immunofluorescence - Anti-COL11A1 antibody [EPR24327-8] (ab270946)

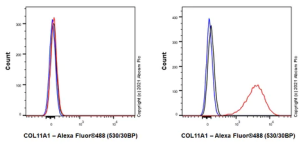
COL11A1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-COL11A1 antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized A-204 (Human Muscle Rhabdomyosarcoma cell line) whole cells labeling COL11A1 with ab270946 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150081) secondary antibody at 1/1000 dilution (green).
Confocal image showing cytoplasmic staining in A-204 cell line. Tubulin is detected with Anti-alpha Tubulin mouse MAb (ab195889) at 1/200 dilution (Red).

Negative control: HCT 116 (PMID: 25417197).

The nuclear counterstain is DAPI (blue).

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.

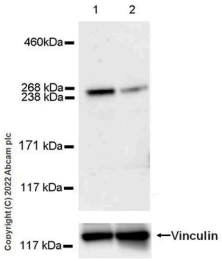


Flow Cytometry (Intracellular) - Anti-COL11A1 antibody [EPR24327-8] (ab270946)

COL11A1 Flow Cytometry (Intracellular) staining using rabbit Anti-COL11A1 antibody

Intracellular flow cytometric analysis of HCT 116 (Human colorectal carcinoma epithelial cell), Left)/ A-204 (rat muscle rhabdomyosarcoma, Right) fixed with 4% paraformaldehyde permeabilized with 90% methanol cells labelling COL11A1 with ab270946 at 1/500 (Red), compared with a (ab172730) isotype control (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue).
A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 was used as the secondary antibody.

Negative control: HCT116 (PMID: 25417197).



Western blot - Anti-COL11A1 antibody [EPR24327-8] (ab270946)

COL11A1 Western blot staining using rabbit Anti-COL11A1 antibody

Blocking and diluting buffer: 5% NFDM/TBST.
Lysates were prepared from fresh material and used for Western blotting immediately to minimize protein degradation.

All lanes:
Western blot - Anti-COL11A1 antibody [EPR24327-8] (ab270946) at 1/1000 dilution

Lane 1:
A-204 (Human muscle rhabdomyosarcoma) transfected with scrambled siRNA control, whole cell fresh lysate at 20 µg

Lane 2:
A-204 transfected with siRNA specifically targeti COL11A1, whole cell fresh lysate at 20 µg

Secondary

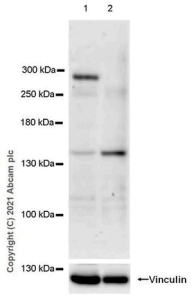
All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution

Performed under non-reducing conditions.

Predicted band size: 181 kDa

Observed band size: 260 kDa

Exposure time: 3min



Western blot - Anti-COL11A1 antibody [EPR24327-8] (ab270946)

COL11A1 Western blot staining using rabbit Anti-COL11A1 antibody

Blocking and dilution buffer: 5% NFDM/TBST.
Lysates were prepared from fresh material and used for Western blotting immediately to minimize protein degradation.

The expression profile/molecular weight observed is consistent with that described in the literature (PMID: 32950601).

The ~150 kDa bands are expected to be non-specific bands.

Negative control: HCT116 (PMID: 25417197).
All lanes:
Western blot - Anti-COL11A1 antibody [EPR24327-8] (ab270946) at 1/1000 dilution

Lane 1:
A-204 (Human muscle rhabdomyosarcoma) whole cell fresh lysate at 20 µg

Lane 2:
HCT116 (human colorectal carcinoma epithelial cell) whole cell fresh lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Developed using the ECL technique.

Performed under non-reducing conditions.

Predicted band size: 181 kDa

Observed band size: 280 kDa

Exposure time: 3min

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.