

Anti-Zyxin antibody [EPR4302] ab109316

リコンビナント **RabMAb**

8 References [画像数 12](#)

製品の概要

製品名	Anti-Zyxin antibody [EPR4302]
製品の詳細	Rabbit monoclonal [EPR4302] to Zyxin
由来種	Rabbit
アプリケーション	適用あり: Flow Cyt (Intra), WB, IP, IHC-P, ICC/IF
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: HeLa, MCF7, Daudi and C2C12 cell lysates; mouse lung and testis, rat lung and testis tissue lysates. IHC-P: Human gastric carcinoma, mouse and rat kidney tissue IP: Mouse testis tissue lysate. Flow Cyt (intra): HeLa cells. ICC/IF: HeLa cells
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS</p>
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR4302

アイソタイプIgG

アプリケーション

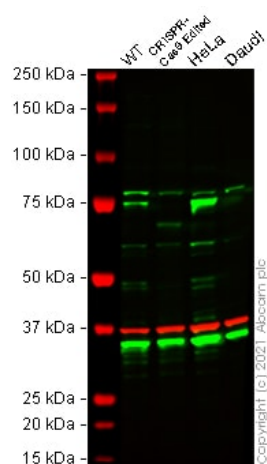
The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab109316の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/20000. Detects a band of approximately 82 kDa (predicted molecular weight: 61 kDa).
IP		1/50.
IHC-P		1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See IHC antigen retrieval protocols . The immunostaining was performed on a Leica Biosystems BOND® RX instrument.
ICC/IF		1/500.

ターゲット情報

機能	Adhesion plaque protein. Binds alpha-actinin and the CRP protein. Important for targeting TES and ENA/VASP family members to focal adhesions and for the formation of actin-rich structures. May be a component of a signal transduction pathway that mediates adhesion-stimulated changes in gene expression.
配列類似性	Belongs to the zyxin/ajuba family. Contains 3 LIM zinc-binding domains.
細胞内局在	Cytoplasm. Cytoplasm, cytoskeleton. Nucleus. Cell junction, focal adhesion. Associates with the actin cytoskeleton near the adhesion plaques. Enters the nucleus in the presence of HESX1.

画像



Western blot - Anti-Zyxin antibody [EPR4302]
(ab109316)

All lanes : Anti-Zyxin antibody [EPR4302] (ab109316) at 1/20000 dilution

Lane 1 : Wild-type HEK-293T cell lysate

Lane 2 : ZYX CRISPR-Cas9 edited HEK-293T cell lysate

Lane 3 : HeLa cell lysate

Lane 4 : Daudi cell lysate

Lysates/proteins at 20 µg per lane.

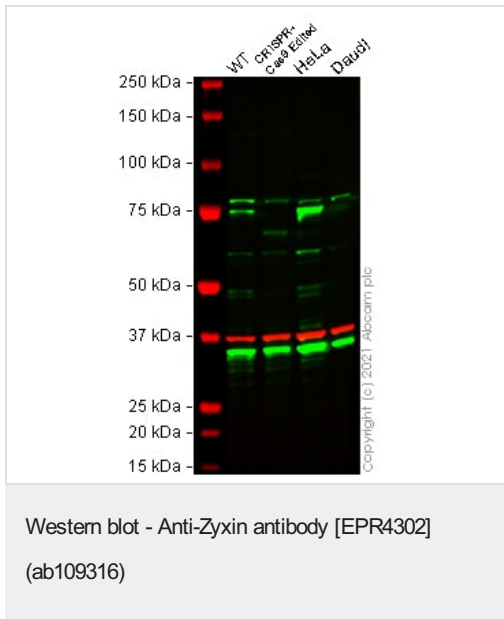
Performed under reducing conditions.

Predicted band size: 61 kDa

Observed band size: 75 kDa

False colour image of Western blot: Anti-Zyxin antibody [EPR4302] staining at 1/20000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] ([ab8245](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab109316 was shown to bind specifically to Zyxin. A band was observed at 75 kDa in wild-type HEK-293T cell lysates with no signal observed at this size in ZYX CRISPR-Cas9 edited cell line [ab266503](#) (CRISPR-Cas9 edited cell lysate [ab257809](#)). The band observed in the CRISPR-Cas9 edited lysate lane below 75 kDa is likely to represent a truncated form of Zyxin. This has not been investigated further and the functional properties of the gene product have not been determined. To generate this image, wild-type and ZYX CRISPR-Cas9 edited HEK-293T cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed

([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) at 1/20000 dilution.



All lanes : Anti-Zyxin antibody [EPR4302] (ab109316) at 1/20000 dilution

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Lane 2 : ZYX CRISPR-Cas9 edited HEK-293T cell lysate

Lane 3 : HeLa cell lysate

Lane 4 : Daudi cell lysate

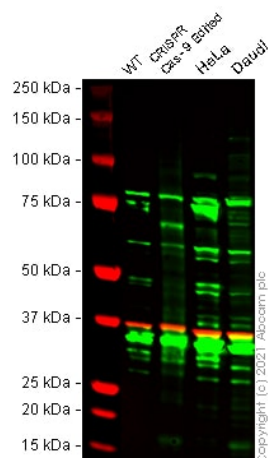
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

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(ab109316)

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Lane 3 : HeLa cell lysate

Lane 4 : Daudi cell lysate

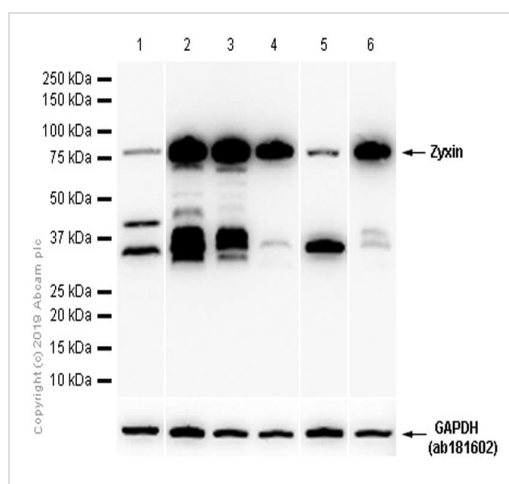
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Western blot - Anti-Zyxin antibody [EPR4302] (ab109316)

All lanes : Anti-Zyxin antibody [EPR4302] (ab109316) at 1/20000 dilution (Purified)

Lane 1 : MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysates

Lane 2 : C2C12 (Mouse myoblasts myoblast) whole cell lysates

Lane 3 : Mouse lung lysates

Lane 4 : Mouse testis lysates

Lane 5 : Rat lung lysates

Lane 6 : Rat testis lysates

Lysates/proteins at 20 µg per lane.

Secondary

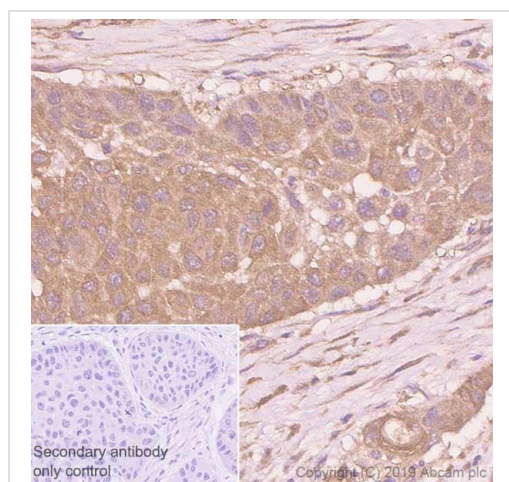
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 61 kDa

Observed band size: 82 kDa

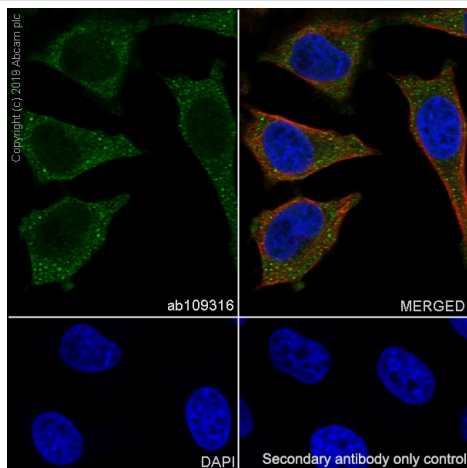
Blocking/Diluting buffer: 5% NFDm/TBST

We are unsure about the extra bands. They might be the cleavage fragments as what are described in PMID:17572661



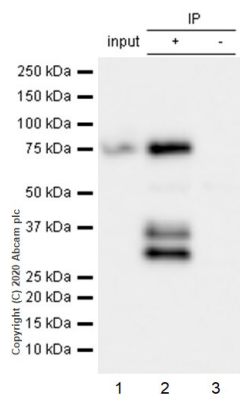
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Zyxin antibody [EPR4302] (ab109316)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human gastric carcinoma tissue sections labeling Zyxin with purified ab109316 at 1/1000 dilution (0.94 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunocytochemistry/ Immunofluorescence - Anti-Zyxin antibody [EPR4302] (ab109316)

Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling Zyxin with Purified ab109316 at 1/500 dilution (1.87 $\mu\text{g/mL}$). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 $\mu\text{g/mL}$). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 $\mu\text{g/mL}$) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunoprecipitation - Anti-Zyxin antibody [EPR4302] (ab109316)

Purified ab109316 at 1/50 dilution (2ug) immunoprecipitating Zyxin in Mouse testis lysate.

Lane 1 (input): Mouse testis lysate (10 μg)

Lane 2 (+): ab109316 + Mouse testis lysate.

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab109316 in mouse testis lysate.

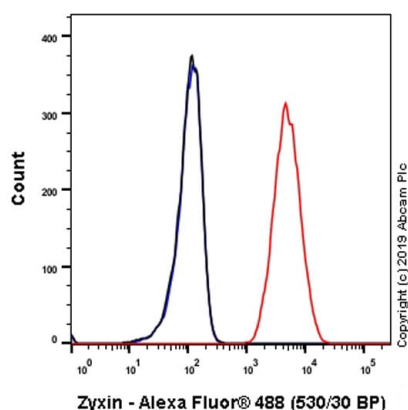
VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/5000) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM/TBST.

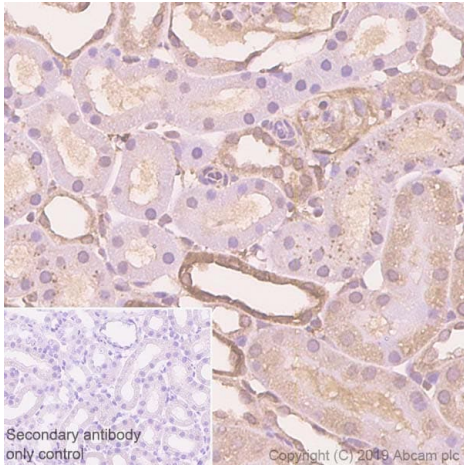
Observed band size: 82 kDa

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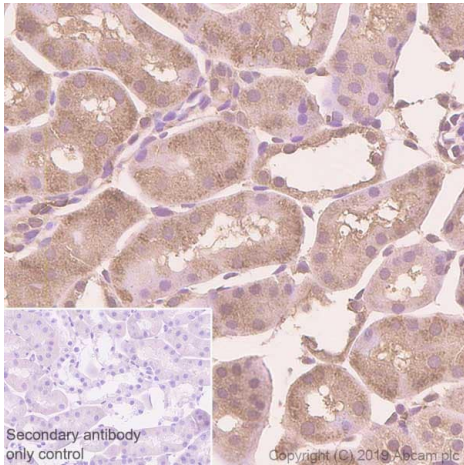
Flow Cytometry (Intracellular) - Anti-Zyxin antibody [EPR4302] (ab109316)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling Zyxin with Purified ab109316 at 1/100 dilution (10 $\mu\text{g/mL}$) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



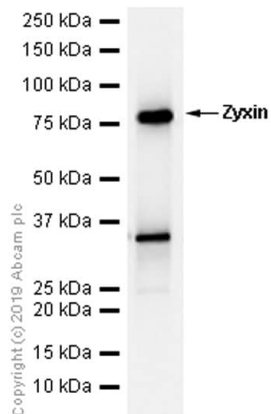
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Zyxin antibody [EPR4302] (ab109316)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat kidney tissue sections labeling Zyxin with purified ab109316 at 1/1000 dilution (0.94 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



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Western blot - Anti-Zyxin antibody [EPR4302]
(ab109316)

Anti-Zyxin antibody [EPR4302] (ab109316) at 1/20000 dilution
(Purified) + HeLa (Human cervix adenocarcinoma epithelial cell)
whole cell lysates at 15 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 61 kDa

Observed band size: 82 kDa

Blocking/Diluting buffer: 5% NFDM/TBST

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Why choose a recombinant antibody?



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Confirmed specificity



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Anti-Zyxin antibody [EPR4302] (ab109316)

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