

### Human ZYX (Zyxin) knockout HEK-293T cell lysate ab257809

画像数 5

#### 製品の概要

製品名	Human ZYX (Zyxin) knockout HEK-293T cell lysate
製品の概要	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	HEK293T
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, 19 bp deletion in exon2 and 1 bp deletion in exon2.
Passage number	<20
Knockout validation	Sanger Sequencing, Western Blot (WB)
Reconstitution notes	To use as WB control, resuspend the lyophilizate in 50 µL of LDS* Sample Buffer to have a final concentration of 2 mg/ml. For reducing conditions, we recommend a final concentration of 0.1 M DTT. *Usage of SDS sample buffer is not recommended with these lyophilized lysates.

#### 特記事項

**Lysate preparation:** Our lysates are made using RIPA buffer to which we add a protease inhibitor cocktail and phosphatase inhibitor cocktail (ratio: 300:100:10). *This means that the protein of interest is denatured.* If you require a native form of the protein please use the live cell version - found [here](#). Please refer to our lysis protocol for further details on how our lysates are prepared.

**User storage instructions:** Lyophilizate may be stored at 4°C. After reconstitution, store at -20°C for short-term storage or -80°C for long-term storage.

Access thousands of knockout cell lysates, generated from commonly used cancer cell lines.

**[See here for more information on knockout cell lysates.](#)**

Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances.

It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.

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#### アプリケーション

**適用あり:** WB

#### 製品の特性

**保存方法** Store at -80°C. Please refer to protocols.

内容	1 kit
ab255553 - Human wild-type HEK293T cell lysate	1 x 100µg
ab263592 - Human ZYX knockout HEK293T cell lysate	1 x 100µg

**Cell type** epithelial  
**Gender** Female  
**STR Analysis** Amelogenin X D5S818: 8, 9 D13S317: 12, 14 D7S820: 11 D16S539: 9, 13 vWA: 16, 19 TH01: 7, 9.3 TPOX: 11 CSF1PO: 11, 12

#### 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.

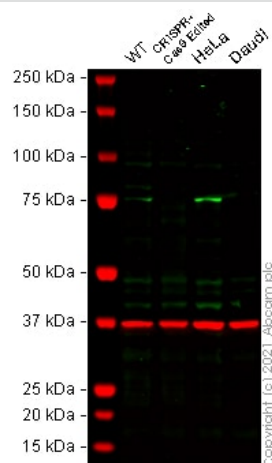
**細胞内局在** Cytoplasm. Cytoplasm, cytoskeleton. Nucleus. Cell junction, focal adhesion. Associates with the actin cytoskeleton near the adhesion plaques. Enters the nucleus in the presence of HESX1.

#### 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ab257809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
WB		Use at an assay dependent concentration. Predicted molecular weight: 61 kDa.

#### 画像



anti zyxin antibody zol301 western blot wildtype  
hek293t zyx knockout hek293t hela daudi ab

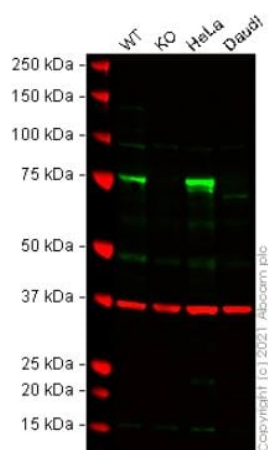
**Lane 1:** Wild-type HEK-293T cell lysate, 20 ug

**Lane 2:** ZYX knockout HEK-293T cell lysate, 20 ug

**Lane 3:** HeLa cell lysate, 20 ug

**Lane 4:** Daudi cell lysate, 20 ug

False colour image of Western blot: Anti-Zyxin antibody [ZOL301] staining at 1/1000 dilution, shown in green; Rabbit Anti-GAPDH antibody [EPR16891] ([ab181602](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, [ab50391](#) 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 3 % milk in TBS-0.1 % Tween<sup>®</sup> 20 (TBS-T) 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-Mouse IgG H&L (IRDye<sup>®</sup> 800CW) preabsorbed ([ab216772](#)) and Goat anti-Rabbit IgG H&L (IRDye<sup>®</sup> 680RD) preabsorbed ([ab216777](#)) at 1/20000 dilution.



Western blot - Human ZYX (Zyxin) knockout HEK-293T cell lysate (ab257809)

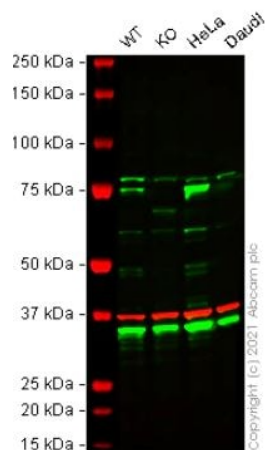
**Lane 1:** Wild-type HEK-293T cell lysate, 20 ug

**Lane 2:** ZYX knockout HEK-293T cell lysate, 20 ug

**Lane 3:** HeLa cell lysate, 20 ug

**Lane 4:** Daudi cell lysate, 20 ug

False colour image of Western blot: Anti-Zyxin antibody - N-terminal staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] ([ab8245](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, [ab229757](#) 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 knockout cell line [ab266503](#) (knockout cell lysate ab257809). The band observed in the knockout 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 knockout 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 5 % milk in TBS-0.1 % Tween<sup>®</sup> 20 (TBS-T) 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<sup>®</sup> 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye<sup>®</sup> 680RD) preabsorbed ([ab216776](#)) at 1/20000 dilution.



Western blot - Human ZYX (Zyxin) knockout HEK-293T cell lysate (ab257809)

**Lane 1:** Wild-type HEK-293T cell lysate, 20 ug

**Lane 2:** ZYX knockout HEK-293T cell lysate, 20 ug

**Lane 3:** HeLa cell lysate, 20 ug

**Lane 4:** Daudi cell lysate, 20 ug

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 knockout cell line [ab266503](#) (knockout cell lysate ab257809). The band observed in the knockout 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 knockout 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.

Mut	TACGCCCCGAGAAGTTCGGCCCTGTG-----TGAATCCCTTC
WT	TACGCCCCGAGAAGTTCGGCCCTGTGGTGGCCCCAAAGCCCAAGTGAATCCCTTC

Sanger Sequencing - Human ZYX knockout  
HEK293T cell lysate (ab257809)

Allele-1: 19 bp deletion in exon2

Mut	TACGCCCCGAGAAGAAGTTCGGCCCTGTG-TGGCCCCAAAGCCCAAGTGAATCCCTTC
WT	TACGCCCCGAGAAGAAGTTCGGCCCTGTGGTGGCCCCAAAGCCCAAGTGAATCCCTTC

Sanger Sequencing - Human ZYX knockout  
HEK293T cell lysate (ab257809)

Allele-2: 1 bp deletion in exon2

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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