abcam

Product datasheet

Anti-TLE 1 antibody [EPR9386(2)] - BSA and Azide free ab240963

敲除验证 重组 RabMAb

9 图像

概述

产品名称	Anti-TLE 1抗体[EPR9386(2)] - BSA and Azide free
描述	兔单克隆抗体[EPR9386(2)] to TLE 1 - BSA and Azide free
宿主	Rabbit
经测试应用	**适用于:** ICC/IF, IHC-P, WB
种属反应性	**与反应:** Human **预测可用于:** Mouse, Rat
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HEK-293T, SH-SY5Y, MCF7, HepG2, Jurkat and HeLa cell lysates. IHC-P: Human schwannoma and synovial sarcoma tissues, HEK-293T cells. ICC/IF: MCF7 and HepG2 cells, HEK-293T cell pellet.
常规说明	ab240963 is the carrier-free version of **ab183742**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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 production For more information **see here**.

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

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.2 Constituent: PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR9386(2)
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab240963于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

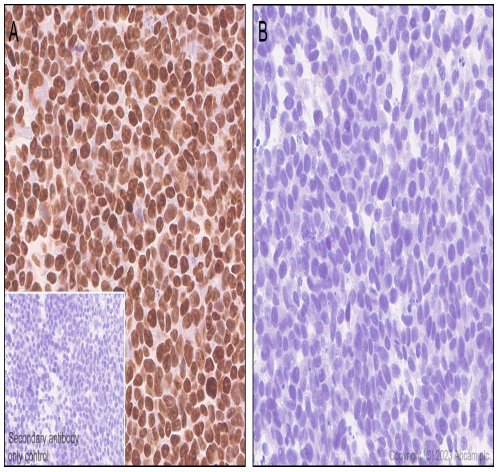
应用	Ab评论	说明
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 83 kDa (predicted molecular weight: 83 kDa).

靶标

功能	Transcriptional corepressor that binds to a number of transcription factors. Inhibits NF-kappa-B-regulated gene expression. Inhibits the transcriptional activation mediated by FOXA2, and by CTNNB1 and TCF family members in Wnt signaling. The effects of full-length TLE family members may be modulated by association with dominant-negative AES. Unusual function as coactivator for ESRRG.
组织特异性	In all tissues examined, mostly in brain, liver and muscle.
序列相似性	Belongs to the WD repeat Groucho/TLE family. Contains 6 WD repeats.
结构域	WD repeat Groucho/TLE family members are characterized by 5 regions, a glutamine-rich Q domain, a glycine/proline-rich GP domain, a central CcN domain, containing a nuclear localization signal, and a serine/proline-rich SP domain. The most highly conserved are the N-terminal Q domain and the C-terminal WD-repeat domain.

翻译后修饰	Phosphorylated, probably by CDK1. The degree of phosphorylation varies throughout the cell cycle, and is highest at the G2/M transition. Becomes hyperphosphorylated in response to cell differentiation and interaction with HES1 or RUNX1. Ubiquitinated by XIAP/BIRC4.
细胞定位	Nucleus. Nuclear and chromatin-associated, depending on isoforms and phosphorylation status. Hyperphosphorylation decreases the affinity for nuclear components.

图片

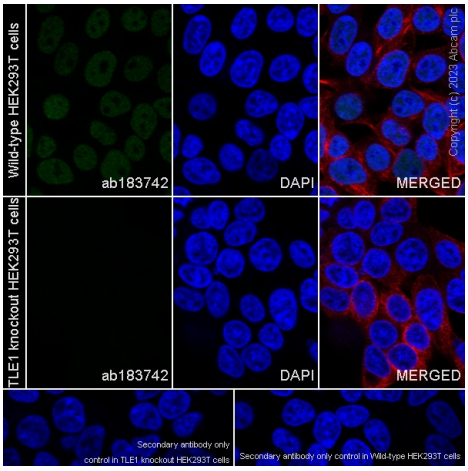


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TLE 1 antibody [EPR9386(2)] - BSA and Azide free (ab240963)

This data was developed using the same antibody clone in a different buffer formulation (**ab183742**)

Immunohistochemical analysis of paraffin-embedded fixed (A) Parental HEK293 (Human embryonic kidney epithelial cell) cell pellet (B) TLE1 knockout HEK293 (**ab265059**) cell pellet, staining TLE 1 with **ab183742** at 1/250 dilution for 30 mins at room temperature. LeicaDS9800 (Bond™ Polymer Refine Detection) used as secondary antibody. Counter-stained using hematoxylin. Positive staining on Wild-type HEK293T cell pellet and no staining on TLE1 knockout HEK293 cell pellet.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

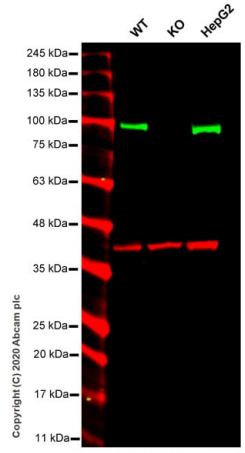
Heat mediated antigen retrieval was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins.



Immunocytochemistry/ Immunofluorescence - Anti-TLE 1 antibody [EPR9386(2)] - BSA and Azide free (ab240963)

This data was developed using the same antibody clone in a different buffer formulation (**ab183742**)

Immunofluorescence analysis of 4% paraformaldehyde-fixed, 0.1% TritonX-100 permeabilised wildtype HEK293T cells and TLE1 knockout HEK293T cells (**ab265059**) with **ab183742** (green) at 1/50 dilution. Alexa Fluor® 488 Goat Anti-Rabbit IgG H&L (**ab150081**) was used as a secondary antibody, presabsorbed at 1/1000 dilution. Alexa Fluor® 594 Anti-alpha Tubulin mouse monoclonal antibody (**ab195889**) used as microtubule marker counterstain (red). Nuclei were counterstained with DAPI (blue). Confocal image showing nuclear staining in wildtype HEK293T cells and showing no staining in TLE1 knockout HEK293T cells. Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8).



Western blot - Anti-TLE 1 antibody [EPR9386(2)] - BSA and Azide free (ab240963)

All lanes : Anti-TLE 1 antibody [EPR9386(2)] (**ab183742**) at 1/1000 dilution

Lane 1 : Wild-type HEK-293T cell lysate
Lane 2 : TLE1 knockout HEK-293T cell lysate
Lane 3 : HepG2 cell lysate

Lysates/proteins at 20 µg per lane.

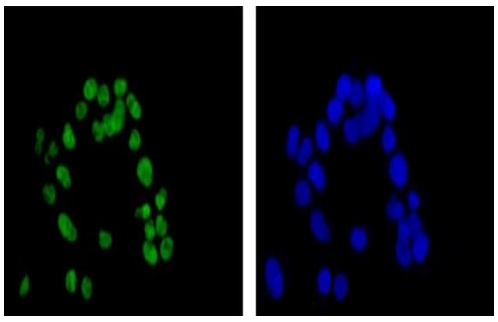
Performed under reducing conditions.

Predicted band size: 83 kDa
Observed band size: 83 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab183742**).

Lanes 1-3: Merged signal (red and green). Green - **ab183742** observed at 83 kDa. Red - loading control, **ab8245** observed at 37 kDa.

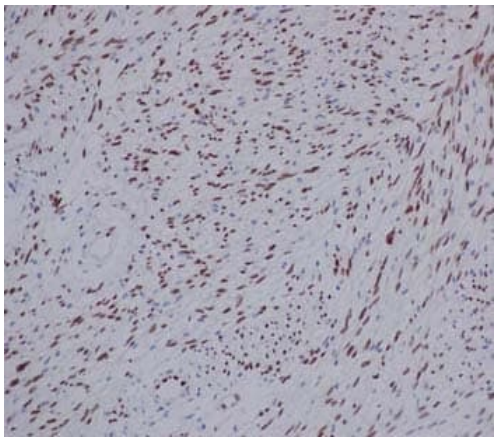
ab183742 Anti-TLE 1 antibody [EPR9386(2)] was shown to specifically react with TLE 1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab265059** (knockout cell lysate **ab257240**) was used. Wild-type and TLE 1 knockout samples were subjected to SDS-PAGE. **ab183742** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-TLE 1 antibody [EPR9386(2)] - BSA and Azide free (ab240963)

Immunofluorescence analysis of paraformaldehyde-fixed HepG2 cells, staining TLE 1 (green) with **ab183742** at 1/100 dilution. Alexa Fluor®488-conjugated goat anti rabbit IgG was used as a secondary antibody at 1/200 dilution. Nuclei were counterstained with DAPI (blue).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab183742**)

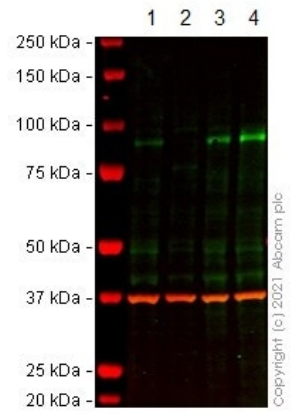


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TLE 1 antibody [EPR9386(2)] - BSA and Azide free (ab240963)

Immunohistochemical analysis of Human schwannoma, staining TLE 1 with **ab183742** at 1/250 dilution. Detected using HRP Polymer for Rabbit IgG and counter-stained using hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab183742**)

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-TLE 1 antibody [EPR9386(2)] - BSA and Azide free (ab240963)

All lanes : Anti-TLE 1 antibody [EPR9386(2)] (**ab183742**) at 1/1000 dilution

Lane 1 : Wild-type MCF7 cell lysate
Lane 2 : TLE1 CRISPR/Cas9 edited MCF7 cell lysate
Lane 3 : SH-SY5Y cell lysate
Lane 4 : HepG2 cell lysate

Lysates/proteins at 20 µg per lane.

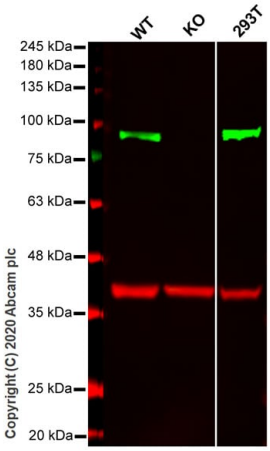
Performed under reducing conditions.

Predicted band size: 83 kDa
Observed band size: 83 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab183742**).

Lanes 1 - 4: Merged signal (red and green). Green - **ab183742** observed at 83 kDa. Red - loading control, **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37 kDa.

ab183742 was shown to react with TLE 1 in western blot. The band observed in the CRISPR/Cas9 edited lysate lane below 83 kDa is likely to represent a truncated form. This has not been investigated further. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with **ab183742** and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-TLE 1 antibody [EPR9386(2)] - BSA and Azide free (ab240963)

All lanes : Anti-TLE 1 antibody [EPR9386(2)] (**ab183742**) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : TLE1 knockout HeLa cell lysate
Lane 3 : 293T cell lysate

Lysates/proteins at 20 µg per lane.

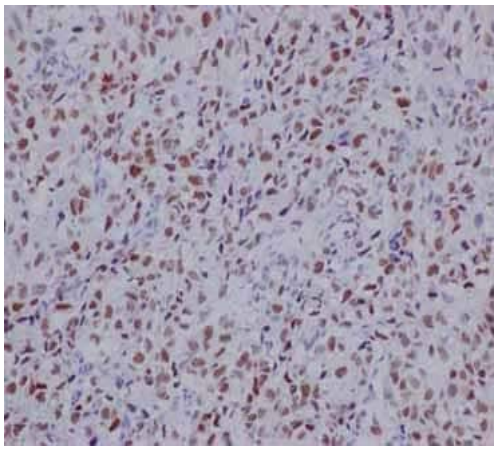
Performed under reducing conditions.

Predicted band size: 83 kDa
Observed band size: 83 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab183742**).

Lanes 1-3: Merged signal (red and green). Green - **ab183742** observed at 83 kDa. Red - loading control, **ab8245** observed at 37 kDa.

ab183742 Anti-TLE 1 antibody [EPR9386(2)] was shown to specifically react with TLE 1 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab264901** (knockout cell lysate **ab257241**) was used. Wild-type and TLE 1 knockout samples were subjected to SDS-PAGE. **ab183742** and Anti-GAPDH antibody [EPR16891] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye®800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye®680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.

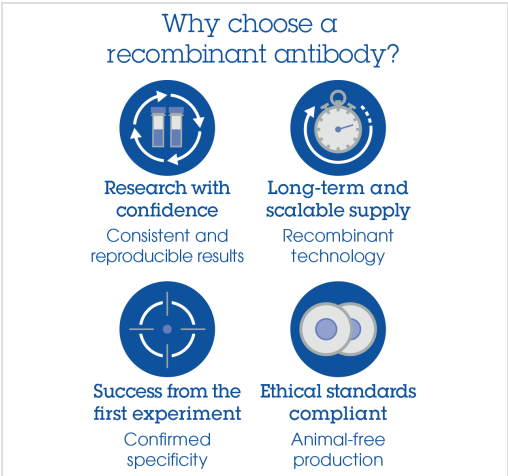


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TLE 1 antibody [EPR9386(2)] - BSA and Azide free (ab240963)

Immunohistochemical analysis of Human synovial sarcoma, staining TLE 1 with **ab183742** at 1/250 dilution. Detected using HRP Polymer for Rabbit IgG and counter-stained using hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab183742**)

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Anti-TLE 1 antibody [EPR9386(2)] - BSA and Azide free (ab240963)

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