Product datasheet

**Anti-TLE 1 antibody [EPR9386(2)] ab183742**

3 References   4 Images

**Overview**

**Product name**  Anti-TLE 1 antibody [EPR9386(2)]  
**Description**  Rabbit monoclonal [EPR9386(2)] to TLE 1  
**Host species**  Rabbit  
**Tested applications**  Suitable for: ICC/IF, IHC-P, WB  
**Species reactivity**  Reacts with: Mouse, Rat, Human  
**Immunogen**  Synthetic peptide within Human TLE 1 aa 200-300. The exact sequence is proprietary. Database link: Q04724  
**Positive control**  SH-SY5Y, HepG2, Jurkat and HeLa cell lysates. Human schwannoma and synovial sarcoma tissues. HepG2 cells.  
**General notes**  Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents. This product is a recombinant rabbit monoclonal antibody.

**Properties**

**Form**  Liquid  
**Storage instructions**  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.  
**Storage buffer**  Preservative: 0.01% Sodium azide  
**Purity**  Constituents: 40% Glycerol, 59% PBS, 0.05% BSA  
**Protein A purified**  
**Clonality**  Monoclonal  
**Clone number**  EPR9386(2)  
**Isotype**  IgG

**Applications**

Our Abpromise guarantee covers the use of ab183742 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ICC/IF</td>
<td>1/100.</td>
<td></td>
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<tr>
<td>IHC-P</td>
<td>1/100 - 1/250.</td>
<td>Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
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<tr>
<td>WB</td>
<td>1/1000 - 1/2000.</td>
<td>Detects a band of approximately 83 kDa (predicted molecular weight: 83 kDa).</td>
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**Function**

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.

**Tissue specificity**

In all tissues examined, mostly in brain, liver and muscle.

**Sequence similarities**

Belongs to the WD repeat Groucho/TLE family. Contains 6 WD repeats.

**Domain**

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.

**Post-translational modifications**

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.

**Cellular localization**

Nucleus. Nuclear and chromatin-associated, depending on isoforms and phosphorylation status. Hyperphosphorylation decreases the affinity for nuclear components.
All lanes: Anti-TLE 1 antibody [EPR9386(2)] (ab183742) at 1/1000 dilution

Lane 1: SH-SY5Y cell lysate
Lane 2: HepG2 cell lysate
Lane 3: Jurkat cell lysate
Lane 4: HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

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

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.
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.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TLE 1 antibody [EPR9386(2)] (ab183742)

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).

Immunocytochemistry/ Immunofluorescence - Anti-TLE 1 antibody [EPR9386(2)] (ab183742)

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