

## DESCRIPTION

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|---------------------------|---|
| <b>Species Reactivity</b> | Human   |
| <b>Specificity</b>        | Detects human TLE2 in direct ELISAs. In direct ELISAs, less than 2% cross-reactivity with recombinant human (rh) TLE1, rhTLE3, and rhTLE4 is observed.  |
| <b>Source</b>             | Polyclonal Sheep IgG  |
| <b>Purification</b>       | Antigen Affinity-purified   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human TLE2<br>Ile11-Ser193<br>Accession # Q04725  |
| <b>Conjugate</b>          | Alexa Fluor 532<br>Excitation Wavelength: 534 nm<br>Emission Wavelength: 553 nm   |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Immunohistochemistry** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## BACKGROUND

TLE2 (Transducin-Like Enhancer of Split 2; also ESG2 and Grg-2) is an 83-84 kDa member of the WD repeat Groucho/TLE family of transcriptional repressors. It is ubiquitously expressed, and is known to antagonize TCF (Wnt)-mediated signaling. TLE2 binds to other family members as a heterooligomer, or to itself as a homooligomer. While it possesses no intrinsic DNA-binding activity, it does modulate the activity of multiple factors such as FoxG1, Arx and histone H3. Human TLE2 is 743 amino acids (aa) in length. It contains a Gln-rich region that mediates oligomerization (aa 1-133), a CCN domain that contains an NLS (aa 195-256), and six WD repeats that mediate protein-protein interaction (aa 455-742). There are at least five potential phosphorylation sites that if used, may account for SDS-Page MWs exceeding 95 kDa. Potential isoform variants exist. One possesses a 21 aa substitution for aa 1-9, while a second shows the same substitution coupled to an additional 10 aa substitution for aa 683-743. A third isoform possesses an alternative start site at Met56 coupled to a deletion of aa 124-190. Over aa 11-193, human TLE2 shares 91% aa identity with mouse TLE2.

## PRODUCT SPECIFIC NOTICES

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