

**DESCRIPTION**

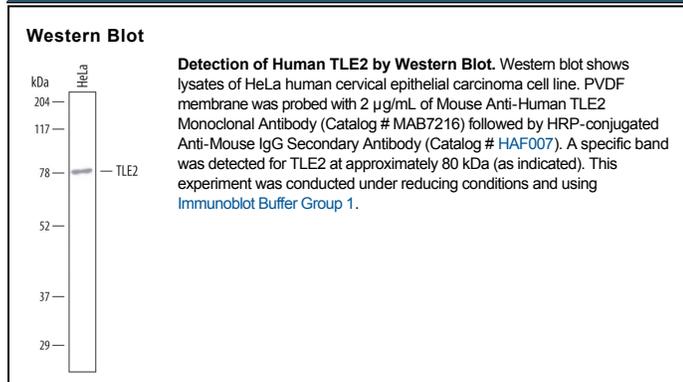
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human TLE2 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human TLE1, 3, or 4 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 737428
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human TLE2 Leu11-Ser193 Accession # Q04725
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	2 µg/mL	See Below

**DATA**



**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**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.