Human TLE2 Antibody

Monoclonal Mouse IgG_{2A} Clone # 737428

Catalog Number: MAB7216

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TLE2 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human TLE1, 3, or 4 is observed.
Source	Monoclonal Mouse IgG_{2A} Clone # 737428
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human TLE2 Leu11-Ser193 Accession # Q04725
Formulation	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.

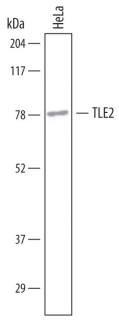
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below

DATA

Western Blot



Detection of Human TLE2 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human TLE2 Monoclonal Antibody (Catalog # MAB7216) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for TLE2 at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	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
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.