

## TLE5 (C-20): sc-69045

### BACKGROUND

The Notch signaling pathway controls cellular interactions important for the specification of a variety of fates in both vertebrates and invertebrates. Key players in the Notch pathway are the TLE genes (for transducin-like enhancer of split, also designated ESG for enhancer of split groucho), which are human homologs of the *Drosophila* groucho gene. TLE5, also known as AES (amino-terminal enhancer of split), GRG or ESP1, is a 197 amino acid nuclear protein that belongs to the TLE family. Expressed predominately in fetal brain, liver, lung, heart and kidney and in adult muscle, TLE5 functions as either a homooligomer or a heterooligomer with other TLE family members and, through this association, dominantly represses the expression of TLE genes. In addition, TLE5 can repress NF $\kappa$ B-regulated gene expression and is thought to play an important role in initiating and maintaining cell differentiation events. Two isoforms of TLE5 exist due to alternative splicing events.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: AES (human) mapping to 19p13.3; Aes (mouse) mapping to 10 C1.

### SOURCE

TLE5 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of TLE5 of human origin.

### RESEARCH USE

For research use only, not for use in diagnostic procedures.

### PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-69045 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

TLE5 (C-20) is recommended for detection of TLE5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

TLE5 (C-20) is also recommended for detection of TLE5 in additional species, including canine and bovine.

Suitable for use as control antibody for TLE5 siRNA (h): sc-63133, TLE5 siRNA (m): sc-63134, TLE5 shRNA Plasmid (h): sc-63133-SH, TLE5 shRNA Plasmid (m): sc-63134-SH, TLE5 shRNA (h) Lentiviral Particles: sc-63133-V and TLE5 shRNA (m) Lentiviral Particles: sc-63134-V.

Molecular Weight of TLE5: 22 kDa.

Positive Controls: HeLa nuclear extract: sc-2120.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.


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Try **TLE5 (F-G9): sc-101181**, our highly recommended monoclonal alternative to TLE5 (C-20).