

TMEFF1 (ZZ67): sc-80370

BACKGROUND

TMEFF1 and TMEFF2 are putative transmembrane proteins comprised of one epidermal growth factor (EGF)-like domain and two follistatin-like domains. Both TMEFF1 and TMEFF2 are members of the EGF-like protein family and are predominantly expressed in the brain. The structure of TMEFF1 is that of a transmembrane protein with a highly conserved cytoplasmic tail, two follistatin domains and one modified EGF domain in its extracellular region. TMEFF1 is expressed on the cell membrane, and may behave as a tumor suppressor gene in brain cancers. It inhibits Nodal but not Activin signaling by binding to Cripto, the nodal co-receptor, and is also involved in the regulation of BMPs.

REFERENCES

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3. Harms, P.W. and Chang, C. 2003. Tomoregulin-1 (TMEFF1) inhibits Nodal signaling through direct binding to the Nodal co-receptor Cripto. *Genes Dev.* 17: 2624-2629.
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CHROMOSOMAL LOCATION

Genetic locus: TMEFF1 (human) mapping to 9q31.1.

SOURCE

TMEFF1 (ZZ67) is a mouse monoclonal antibody raised against an extracellular domain of TMEFF1 of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} in 1.0 ml PBS with < 0.1% sodium azide and protein stabilizer.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

APPLICATIONS

TMEFF1 (ZZ67) is recommended for detection of TMEFF1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000); non cross-reactive with TMEFF2.

Suitable for use as control antibody for TMEFF1 siRNA (h): sc-45762, TMEFF1 shRNA Plasmid (h): sc-45762-SH and TMEFF1 shRNA (h) Lentiviral Particles: sc-45762-V.

Molecular Weight of TMEFF1: 41 kDa.

STORAGE

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