BACKGROUND

Transmembrane protein containing epidermal growth factor and two follistatin domains proteins (TMEFF1 and TMEFF2), are single-pass type 1 membrane proteins comprised of one epidermal growth factor (EGF)-like domain and two follistatin-like domains. TMEFF2, which also is designated hyperplastic polyposis protein 1 (HPP1) or tomoregulin (TR), may act as a survival factor for mesencephalic and hippocampal neurons. It is highly expressed in brain, prostate and spinal cord, but can also be detected in colon and stomal cells of normal colonic mucosa. TMEFF2, which is highly glycosylated, is down-regulated in tumor cell lines as a result of methylation in its 5' region.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: TMEFF2 (human) mapping to 2q32.3; Tmef2 (mouse) mapping to 1 C1.1.

SOURCE

TMEFF2 (J4B6) is a mouse monoclonal antibody raised against a recombinant protein corresponding to amino acids 41-150 of TMEFF2 of human origin.

PRODUCT

Each vial contains 50 µg IgG2b in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

TMEFF2 (J4B6) is recommended for detection of TMEFF2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TMEFF2 siRNA (h): sc-61695, TMEFF2 siRNA (m): sc-61696, TMEFF2 shRNA Plasmid (h): sc-61695-SH, TMEFF2 shRNA Plasmid (m): sc-61696-SH, TMEFF2 shRNA (h) Lentiviral Particles: sc-61695-V and TMEFF2 shRNA (m) Lentiviral Particles: sc-61696-V.

Molecular Weight of TMEFF2: 41 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or mouse brain extract: sc-2253.

DATA

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

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.