

2300002M23Rik (P-14): sc-162452

BACKGROUND

2300002M23Rik, also known as extracellular matrix protein with prion homology (Emprin) or STG, is a 349 amino acid secreted protein that has been found to bind to numerous extracellular matrix proteins. Based on sequence similarities, 2300002M23Rik is the murine homolog of the human protein STG. STG, also known as C6orf15 (chromosome 6 open reading frame 15), is a 325 amino acid protein that binds numerous extracellular matrix proteins and is expressed in taste buds, skin and tonsils. STG is a secreted protein that contains an N-terminal signal peptide, potential O-glycosylation sites and multiple tandem repeats. STG localizes to the extracellular matrix and likely plays a role in taste cell physiology. STG is encoded by a gene that maps to human chromosome 6p21.33, a region associated with lung cancer and follicular lymphoma susceptibility.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: 2300002M23Rik (mouse) mapping to 17 B1.

SOURCE

2300002M23Rik (P-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal extracellular domain of 2300002M23Rik of mouse origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-162452 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

2300002M23Rik (P-14) is recommended for detection of 2300002M23Rik of mouse and rat 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)], 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).

Suitable for use as control antibody for 2300002M23Rik siRNA (m): sc-108638, 2300002M23Rik shRNA Plasmid (m): sc-108638-SH and 2300002M23Rik shRNA (m) Lentiviral Particles: sc-108638-V.

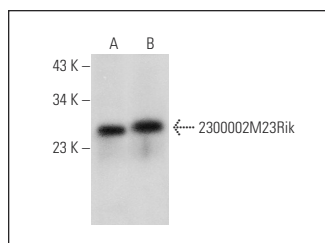
Molecular Weight of 2300002M23Rik: 37 kDa.

Positive Controls: KNRK whole cell lysate: sc-2214 or NIH/3T3 whole cell lysate: sc-2210.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



2300002M23Rik (P-14): sc-162452. Western blot analysis of 2300002M23Rik expression in KNRK (A) and NIH/3T3 (B) whole cell lysates.

STORAGE

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 or our catalog for detailed protocols and support products.