**BACKGROUND**

INSM1 (insulinoma-associated protein 1), also known as zinc finger protein IA-1, is a developmentally regulated zinc finger transcription factor. It localizes to the nucleus and is expressed in embryonic tissues undergoing neuroendocrine differentiation. INSM1 is not expressed in normal adult tissues but can be found highly expressed in neuroendocrine tumors. INSM1 contains five Cys2-His2-type zinc finger DNA binding domains and a prohormone domain. INSM1 acts as a transcriptional repressor of the NeuroD promoter and recruits cyclin D1 as a co-repressor. It plays an important role in neuroendocrine development and is required for normal differentiation of pancreatic endocrine cells. Inhibition of INSM1 results in decreased formation of glucagon and Insulin positive cells. The gene encoding INSM1 is directly regulated by Neurogenin3 which binds chromatin in the INSM1 promoter region and induces transcription.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: INSM1 (human) mapping to 20p11.23; Insml (mouse) mapping to 2 G1.

**SOURCE**

INSM1 (C-1) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 97-135 within an internal region of INSM1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-377428 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-377428 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**STORAGE**

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

**APPLICATIONS**

INSM1 (C-1) is recommended for detection of INSM1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

INSM1 (C-1) is also recommended for detection of INSM1 in additional species, including bovine.

Suitable for use as control antibody for INSM1 siRNA (h): sc-72309, INSM1 siRNA (m): sc-72310, INSM1 shRNA Plasmid (h): sc-72309-SH, INSM1 shRNA Plasmid (m): sc-72310-SH, INSM1 shRNA (h) Lentiviral Particles: sc-72309-V and INSM1 shRNA (m) Lentiviral Particles: sc-72310-V.

INSM1 (C-1) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of INSM1: 58 kDa.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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