**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 it 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 Neuro D promoter and recruits cyclin D1 as a corepressor. 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 Neurogenin 3 which binds chromatin in the INSM1 promoter region and induces transcription.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: INSM1 (human) mapping to 20p11.23; Insm1 (mouse) mapping to 2 G1.

**SOURCE**

INSM1 (A-8) is a mouse monoclonal antibody raised against amino acids 81-125 mapping near the N-terminus 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-271408 X, 200 µg/0.1 ml.

INSM1 (A-8) is available conjugated to agarose (sc-271408 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271408 HRP), 200 µg/ml, for WB, IHCIP and ELISA; to either phycoerythrin (sc-271408 PE), fluorescein (sc-271408 FITC), Alexa Fluor® 488 (sc-271408 AF488), Alexa Fluor® 546 (sc-271408 AF546), Alexa Fluor® 594 (sc-271408 AF594) or Alexa Fluor® 647 (sc-271408 AF647), 200 µg/ml, for WB (RGB), IF, IHCP and FCM; and to either Alexa Fluor® 680 (sc-271408 AF680) or Alexa Fluor® 790 (sc-271408 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**STORAGE**

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

**APPLICATIONS**

INSM1 (A-8) 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), immunohistochemistry (including paraffin-embedded sections) (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 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 (A-8) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of INSM1: 58 kDa.

Positive Controls: A/T-20/D16vF2 whole cell lysate: sc-364367, RIN-m5F whole cell lysate: sc-364792 or TT whole cell lysate: sc-364195.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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