

ICT1 (2A8): sc-100658

BACKGROUND

Stem cell differentiation in the adult colon leads to 3 distinct cell types that make up the tissue of the lower intestine. Neoplastic transformation can deviate a stem cell, or its early descendants, along the maturation pathway that leads to these three cell types. This neoplastic-induced deviation is marked by a change in expression of several mRNAs. ICT1, also known as DS-1, is a member of the prokaryotic/mitochondrial release factor family whose expression is downregulated over four-fold upon colon stem cell differentiation. This downregulation of ICT1 could lead to its use as a marker for detection of colon carcinomas.

REFERENCES

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3. Miura, S., et al. 2000. Screening of genes involved in isoctane tolerance in *Saccharomyces cerevisiae* by using mRNA differential display. *Appl. Environ. Microbiol.* 66: 4883-4889.
4. Craig, M.H., et al. 2002. Field and laboratory comparative evaluation of ten rapid malaria diagnostic tests. *Trans. R. Soc. Trop. Med. Hyg.* 96: 258-265.
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CHROMOSOMAL LOCATION

Genetic locus: ICT1 (human) mapping to 17q25.1.

SOURCE

ICT1 (2A8) is a mouse monoclonal antibody raised against recombinant ICT1 of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

PROTOCOLS

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

APPLICATIONS

ICT1 (2A8) is recommended for detection of ICT1 of 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 ICT1 siRNA (h): sc-94120, ICT1 shRNA Plasmid (h): sc-94120-SH and ICT1 shRNA (h) Lentiviral Particles: sc-94120-V.

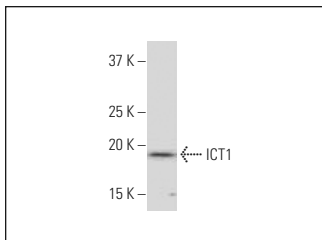
Molecular Weight of ICT1: 24 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



ICT1 (2A8): sc-100658. Western blot analysis of ICT1 expression in HeLa whole cell lysate.

RESEARCH USE

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