SANTA CRUZ BIOTECHNOLOGY, INC.

Cripto (W-15): sc-28450

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Teratocarcinoma-derived growth factor (TDGF)-1 gene encodes a protein known as cripto-1 (Cripto). Cripto is first expressed in the forming mesoderm during gastrulation but later in development the expression is restricted to the truncus arteriosus of the developing heart. This suggests that Cripto mediates the progression of epiblastic cells that give rise to the mesoderm. In the adult animal it is expressed at low levels in the spleen, heart, lung and brain. Cripto overexpression is characteristic of human gastric and colorectal carcinomas.

REFERENCES

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2. Brandt, R., et al. 1994. Identification and biological characterization of an epidermal growth factor-related protein: cripto-1. J. Biol. Chem. 269: 17320-17328.
3. Baldassarre, G., et al. 2001. A truncated form of teratocarcinoma-derived growth factor-1 (cripto-1) mRNA expressed in human colon carcinoma cell lines and tumors. Tumour Biol. 22: 286-293.
4. Adamson, E.D., et al. 2002. Cripto: a tumor growth factor and more. J. Cell. Physiol. 190: 267-278.
5. Parisi, S., et al. 2003. Nodal-dependent Cripto signaling promotes cardiomyogenesis and redirects the neural fate of embryonic stem cells. J. Cell Biol. 163: 303-314.
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CHROMOSOMAL LOCATION

Genetic locus: TDGF1 (human) mapping to 3p21.31, TDGF1P3 (human) mapping to Xq23.

SOURCE

Cripto (W-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Cripto of human 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-28450 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Cripto (W-15) is recommended for detection of Cripto and Cripto-3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Cripto (W-15) is also recommended for detection of Cripto and Cripto-3 in additional species, including equine, bovine and porcine.

Molecular Weight of Cripto: 24 kDa.

Positive Controls: F9 cell lysate: sc-2245.

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) 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.

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.