



Cryptic (C-14): sc-51058

BACKGROUND

Cryptic is a 224 amino acid member of the epidermal growth factor-Cripto-1/FRL1/cryptic family that consists of extracellular and cell-associated proteins which function as co-receptors for the transforming growth factor β subfamily of proteins. Cryptic is involved in the appropriate establishment of the left-right axis of the organism, and it may play a role in the development of mesoderm and/or neural patterning during gastrulation. Loss-of-function mutations in CFC1, the gene encoding for Cryptic, are associated with human left-right laterality defects. Defects in CFC1 also cause visceral heterotaxy (HTX2), an autosomal disease characterized by a variable group of congenital anomalies that include complex cardiac malformations such as conotruncal heart malformations that may lead to cardiac outflow tract defects, pulmonary atresia, double-outlet right ventricle, truncus arteriosus communis and aortic arch anomalies.

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CHROMOSOMAL LOCATION

Genetic locus: CFC1 (human) mapping to 2q21.1; Cfc1 (mouse) mapping to 1 B.

SOURCE

Cryptic (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Cryptic of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-51058 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Cryptic (C-14) is recommended for detection of Cryptic 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).

Suitable for use as control antibody for Cryptic siRNA (h): sc-60453.

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.