SANTA CRUZ BIOTECHNOLOGY, INC.

FRY (C-20): sc-84271

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

In yeast, flies and worms, the Dbf2-related (NDR) kinase protein family functions in various aspects of cell polarity and morphogenesis. The *Drosophila melanogaster* protein, furry, is responsible for maintaining integrity of polarized cell extensions, such as epidermal hair cells, lateral extensions of the arista and the shafts of neuronal sensory bristles. Mutations in furry lead to the formation of branched arista laterals, bristles and hairs. The yeast homolog of furry, Mor2, is important for the localization of F-Actin specifically at the cell ends and is required for the restriction of the growth zones. The mammalian homolog of the *Drosophila* furry protein is FRY, also known as C13orf14, a 3,013 amino acid protein that probably functions as a transcription factor for genes that regulate the actin cytoskeleton. The gene encoding FRY maps to chromosome 13, which comprises nearly 4% of human DNA and contains around 114 million base pairs and 400 genes.

REFERENCES

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STORAGE

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

CHROMOSOMAL LOCATION

Genetic locus: FRY (human) mapping to 13q13.1; Fry (mouse) mapping to 5 G3.

SOURCE

FRY (C-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of FRY of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84271 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FRY (C-20) is recommended for detection of FRY of mouse and 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).

FRY (C-20) is also recommended for detection of FRY in additional species, including equine, canine and bovine.

Suitable for use as control antibody for FRY siRNA (h): sc-75068, FRY siRNA (m): sc-145251, FRY shRNA Plasmid (h): sc-75068-SH, FRY shRNA Plasmid (m): sc-145251-SH, FRY shRNA (h) Lentiviral Particles: sc-75068-V and FRY shRNA (m) Lentiviral Particles: sc-145251-V.

Molecular Weight of FRY: 339 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.