

PFTAIRE-1 (D-12): sc-55736

BACKGROUND

In vertebrates, as in yeast, multiple cyclins have been identified, including a total of eight such regulatory proteins in mammals. In contrast to the situation in yeast, the Cdc2 p34 kinase is not the only catalytic subunit identified in vertebrates that can interact with cyclins. Several additional Cdc2 p34-related cyclin dependent kinases have been identified. These include Cdk3, Cdk4, Cdk5, Cdk6, Cdk7, Cdk8, PCTAIRE-1, PCTAIRE-2, PCTAIRE-3, PFTAIRE-1 and KKIALRE. PFTAIRE-1 demonstrates distribution in the cytoplasm of HeLa cells in spite of its two N-terminal nuclear localization sequences.

CHROMOSOMAL LOCATION

Genetic locus: CDK14 (human) mapping to 7q21.13; Cdk14 (mouse) mapping to 5 A1.

SOURCE

PFTAIRE-1 (D-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of PFTAIRE-1 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-55736 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-55736 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

PFTAIRE-1 (D-12) is recommended for detection of PFTAIRE-1 of mouse, rat 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), 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); not reactive with human isoform 2.

PFTAIRE-1 (D-12) is also recommended for detection of PFTAIRE-1 in additional species, including canine.

Suitable for use as control antibody for PFTAIRE-1 siRNA (h): sc-62779, PFTAIRE-1 siRNA (m): sc-62780, PFTAIRE-1 shRNA Plasmid (h): sc-62779-SH, PFTAIRE-1 shRNA Plasmid (m): sc-62780-SH, PFTAIRE-1 shRNA (h) Lentiviral Particles: sc-62779-V and PFTAIRE-1 shRNA (m) Lentiviral Particles: sc-62780-V.

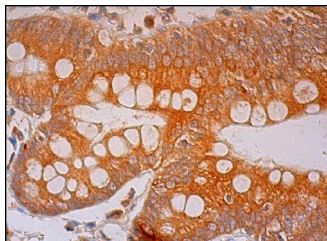
PFTAIRE-1 (D-12) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of PFTAIRE-1: 50 kDa.

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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



PFTAIRE-1 (D-12): sc-55736. Immunoperoxidase staining of formalin fixed, paraffin-embedded human small intestine tissue showing cytoplasmic staining of glandular cells.

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.


 MONOS
 Satisfaction
 Guaranteed

Try **PFTAIRE-1 (C-3): sc-376366**, our highly recommended monoclonal alternative to PFTAIRE-1 (D-12).