

PDEF (N-14): sc-46446

BACKGROUND

Prostate epithelium-specific Ets transcription factor (PDEF), also designated Prostate Ets or SAM pointed domain containing ets transcription factor, is a 335 amino acid nuclear protein. PDEF belongs to the ETS family of proteins. This protein, which localizes to prostate epithelial cells, functions as an ETS transcription factor. It upregulates the activity of the p62 promoter but this activity can be downregulated by PSI. It is also involved in the activation of prostate-specific antigen (PSA) by acting as an androgen-independent trans-activator.

CHROMOSOMAL LOCATION

Genetic locus: SPDEF (human) mapping to 6p21.3; Spdef (mouse) mapping to 17 B1.

SOURCE

PDEF (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of PDEF 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-46446 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-46446 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

PDEF (N-14) is recommended for detection of PDEF of mouse and 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)], 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).

PDEF (N-14) is also recommended for detection of PDEF in additional species, including canine.

Suitable for use as control antibody for PDEF siRNA (h): sc-45845, PDEF siRNA (m): sc-45846, PDEF shRNA Plasmid (h): sc-45845-SH, PDEF shRNA Plasmid (m): sc-45846-SH, PDEF shRNA (h) Lentiviral Particles: sc-45845-V and PDEF shRNA (m) Lentiviral Particles: sc-45846-V.

PDEF (N-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of PDEF: 37 kDa.

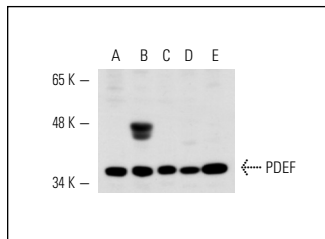
Molecular Weight of glycosylated PDEF: 50 kDa.

Positive Controls: DU 145 nuclear extract: sc-24960, MCF7 nuclear extract: sc-2149 or PC-3 nuclear extract: sc-2152.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



PDEF (N-14): sc-46446. Western blot analysis of PDEF expression in DU 145 (A), MCF7 (B), PC-3 (C) and SK-BR-3 (D) nuclear extracts and MDA-MB-231 (E) whole cell lysate.

SELECT PRODUCT CITATIONS

- Schaefer, J.S., et al. 2010. Transcriptional regulation of p21/CIP1 cell cycle inhibitor by PDEF controls cell proliferation and mammary tumor progression. *J. Biol. Chem.* 285: 11258-11269.

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.



Try **PDEF (G-10): sc-166846**, our highly recommended monoclonal alternative to PDEF (N-14).