

# PDEF (H-250): sc-67022

## 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 promotor 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 transactivator.

## CHROMOSOMAL LOCATION

Genetic locus: SPDEF (human) mapping to 6p21.31; Spdef (mouse) mapping to 17 A3.3.

## SOURCE

PDEF (H-250) is a rabbit polyclonal antibody raised against amino acids 1-250 mapping at 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-67022 X, 200 µg/0.1 ml.

## 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.

## APPLICATIONS

PDEF (H-250) is recommended for detection of PDEF of mouse, rat 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 (H-250) is also recommended for detection of PDEF in additional species, including equine, canine, bovine and porcine.

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 (H-250) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of PDEF: 37 kDa.

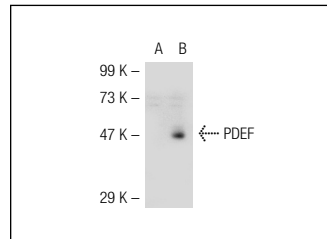
Molecular Weight of glycosylated PDEF: 50 kDa.

Positive Controls: PDEF (m): 293T Lysate: sc-122460, PDEF (h2): 293T Lysate: sc-177713 or PC-3 nuclear extract: sc-2152.

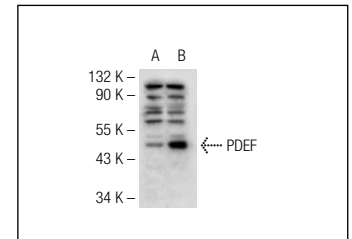
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

## DATA



PDEF (H-250): sc-67022. Western blot analysis of PDEF expression in non-transfected: sc-117752 (A) and mouse PDEF transfected: sc-122460 (B) 293T whole cell lysates.



PDEF (H-250): sc-67022. Western blot analysis of PDEF expression in non-transfected: sc-117752 (A) and human PDEF transfected: sc-177713 (B) 293T whole cell lysates.

## SELECT PRODUCT CITATIONS

- van der Gun, B.T., et al. 2011. Transcription factors and molecular epigenetic marks underlying EpCAM overexpression in ovarian cancer. *Br. J. Cancer* 105: 312-319.
- Workman, A., et al. 2012. Cellular transcription factors induced in trigeminal ganglia during dexamethasone-induced reactivation from latency stimulate bovine herpesvirus 1 productive infection and certain viral promoters. *J. Virol.* 86: 2459-2473.

## PROTOCOLS

See our web site at [www.scbt.com](http://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 (H-250).