

POU6F2 (E-18): sc-104626

BACKGROUND

Tissue-restricted POU domain transcription factors play roles in cellular differentiation and the development of several organs. POU6F2 (POU class 6 homeobox 2), also known as RPF-1 (retina-derived POU domain factor 1), WT5 or WTSL, is a 683 amino acid nuclear protein expressed exclusively in the central nervous system (CNS). POU6F2 localizes to neurons of the dorsal hypothalamus, as well as retinal cells, where it is thought to function as a transcription factor during early amacrine and ganglion cell differentiation. Existing as two alternatively spliced isoforms, POU6F2 contains one homeobox DNA-binding domain, a single POU-specific domain, and is encoded by a gene that maps to human chromosome 7p14.1. POU6F2 defects are associated with Wilms tumor 5 (WT5).

CHROMOSOMAL LOCATION

Genetic locus: POU6F2 (human) mapping to 7p14.1; Pou6f2 (mouse) mapping to 13 A2.

SOURCE

POU6F2 (E-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of POU6F2 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.

Blocking peptide available for competition studies, sc-104626 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-104626 X, 200 µg/0.1 ml.

APPLICATIONS

POU6F2 (E-18) is recommended for detection of POU6F2 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).

POU6F2 (E-18) is also recommended for detection of POU6F2 in additional species, including equine, canine, porcine and avian.

Suitable for use as control antibody for POU6F2 siRNA (h): sc-89556, POU6F2 siRNA (m): sc-152394, POU6F2 shRNA Plasmid (h): sc-89556-SH, POU6F2 shRNA Plasmid (m): sc-152394-SH, POU6F2 shRNA (h) Lentiviral Particles: sc-89556-V and POU6F2 shRNA (m) Lentiviral Particles: sc-152394-V.

POU6F2 (E-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

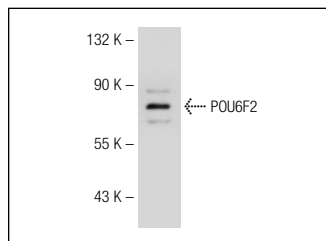
Molecular Weight of POU6F2: 72 kDa.

Positive Controls: Y79 cell lysate: sc-2240.

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



POU6F2 (E-18): sc-104626. Western blot analysis of POU6F2 expression in Y79 whole cell lysate.

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.



Try **POU6F2 (F-7): sc-376709**, our highly recommended monoclonal alternative to POU6F2 (E-18).