

# Vgl-1 (X-18): sc-102153

## BACKGROUND

The transcriptional enhancer factor-1 (TEF-1) family of transcription factors regulate tissue-specific gene expression in muscle and placenta. The mechanism whereby TEF-1 confers tissue specificity depends largely on the interaction of TEF-1 with tissue-specific cofactors. Transcription cofactor vestigial-like protein 1 (Vgl-1), also known as TONDU or TDU, is a TEF-1 cofactor that is critical for controlling tissue-specific gene activation of TEF-1. Vgl-1 interacts with TEF-1 through a conserved sequence known as the TONDU (TDU) motif. While Vgl-1 is expressed almost exclusively in placenta of adult human tissues, it is expressed more widely in human embryo tissues including kidney, lung, skeletal muscle, heart and placenta. Vgl-1 is 258 amino acids in length and localizes to the nucleus.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: VGLL1 (human) mapping to Xq26.3.

## SOURCE

Vgl-1 (X-18) is a purified rabbit polyclonal antibody raised against Vgl-1 of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## APPLICATIONS

Vgl-1 (X-18) is recommended for detection of Vgl-1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Vgl-1 siRNA (h): sc-91232, Vgl-1 shRNA Plasmid (h): sc-91232-SH and Vgl-1 shRNA (h) Lentiviral Particles: sc-91232-V.

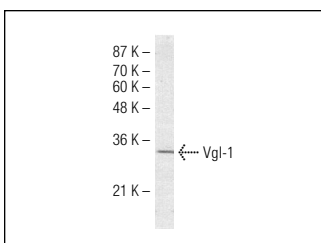
Molecular Weight of Vgl-1: 29 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

## 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).

## DATA



Vgl-1 (X-18): sc-102153. Western blot analysis of Vgl-1 expression in Jurkat 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.

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Try **Vgl-1 (NQ-A1): sc-135601**, our highly recommended monoclonal alternative to Vgl-1 (X-18).