

# FBXO11 (N-16): sc-167859

## BACKGROUND

F-box proteins are critical components of the SCF (Skp1-CUL-1-F-box protein) type E3 ubiquitin ligase complex and are involved in substrate recognition and recruitment for ubiquitination. They are members of a larger family of proteins that are involved in the regulation of a wide variety of cellular processes (including the cell cycle, immune responses, signaling cascades and developmental events) through the targeting of proteins, such as cyclins, cyclin-dependent kinase inhibitors,  $\kappa$ B- $\alpha$  and  $\beta$ -catenin, for proteasomal degradation. FBXO11 (F-box only protein 11), also known as VIT1 (Viteligo-associated protein 1), is a 927 amino acid nuclear protein that contains one UBR-type zinc finger, one F-box domain and 19 Pbh1 repeats. Involved in protein ubiquitination, FBXO11 functions as a substrate recognition component of the SCF complex and is thought to bind to and inhibit the transcriptional activity of p53. Reduced expression of FBXO11 is associated with vitiligo, a disease characterized by progressive skin depigmentation. Multiple isoforms of FBXO11 exist due to alternative splicing events.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: FBXO11 (human) mapping to 2p16.3; Fbxo11 (mouse) mapping to 17 E4.

## SOURCE

FBXO11 (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of FBXO11 of human origin.

## STORAGE

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

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-167859 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

FBXO11 (N-16) is recommended for detection of FBXO11 of mouse, rat and 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)], 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); non cross-reactive with other FBXO family members.

FBXO11 (N-16) is also recommended for detection of FBXO11 in additional species, including canine, bovine and avian.

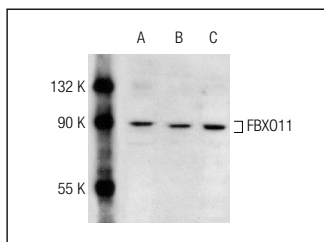
Suitable for use as control antibody for FBXO11 siRNA (h): sc-94892, FBXO11 siRNA (m): sc-145102, FBXO11 shRNA Plasmid (h): sc-94892-SH, FBXO11 shRNA Plasmid (m): sc-145102-SH, FBXO11 shRNA (h) Lentiviral Particles: sc-94892-V and FBXO11 shRNA (m) Lentiviral Particles: sc-145102-V.

Molecular Weight of FBXO11: 103 kDa.

Molecular Weight of FBXO11 fragment: 14 kDa.

Positive Controls: NIH/3T3 nuclear extract: sc-2138, C32 nuclear extract: sc-2136 or SK-MEL-28 nuclear extract.

## DATA



FBXO11 (N-16): sc-167859. Western blot analysis of FBXO11 expression in NIH/3T3 (A), C32 (B) and SK-MEL-28 (C) nuclear extracts.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

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Try **FBXO11 (E-9): sc-393229** or **FBXO11 (LA-58): sc-130473**, our highly recommended monoclonal alternatives to FBXO11 (N-16).