

# FBXO11 (C-20): sc-167857

## 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, I $\kappa$ B- $\alpha$  and  $\beta$ -catenin, for proteasomal degradation. FBXO11 (F-box only protein 11), also known as VIT1 (vitiligo-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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- Abida, W.M., et al. 2007. FBXO11 promotes the Neddylation of p53 and inhibits its transcriptional activity. *J. Biol. Chem.* 282: 1797-1804.

## CHROMOSOMAL LOCATION

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

## SOURCE

FBXO11 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-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-167857 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

FBXO11 (C-20) 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), 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 (C-20) is also recommended for detection of FBXO11 in additional species, including equine, canine, porcine 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.

## 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) 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.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.


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Try **FBXO11 (E-9): sc-393229** or **FBXO11 (LA-58): sc-130473**, our highly recommended monoclonal alternatives to FBXO11 (C-20).