

# FBXO28 (S-15): sc-161581

## 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. FBXO28 (F-box protein 28), also known as fbx28, is a 368 amino acid protein that contains one F-box domain and belongs to the F-box protein family. The gene encoding FBXO28 maps to human chromosome 1, comprises nearly 8% of the human genome and houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: FBXO28 (human) mapping to 1q42.11; Fbxo28 (mouse) mapping to 1 H5.

## SOURCE

FBXO28 (S-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FBXO28 of human origin.

## RESEARCH USE

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

## 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-161581 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

FBXO28 (S-15) is recommended for detection of FBXO28 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.

FBXO28 (S-15) is also recommended for detection of FBXO28 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for FBXO28 siRNA (h): sc-88135, FBXO28 siRNA (m): sc-145114, FBXO28 shRNA Plasmid (h): sc-88135-SH, FBXO28 shRNA Plasmid (m): sc-145114-SH, FBXO28 shRNA (h) Lentiviral Particles: sc-88135-V and FBXO28 shRNA (m) Lentiviral Particles: sc-145114-V.

Molecular Weight of FBXO28: 41 kDa.

Positive Controls: KNRK whole cell lysate: sc-2214, PC-3 cell lysate: sc-2220 or HeLa whole cell lysate: sc-2200.

## 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.

## STORAGE

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

## PROTOCOLS

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