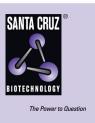
## SANTA CRUZ BIOTECHNOLOGY, INC.

# FBXO44 (S-16): sc-323852



#### 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, cyclindependent kinase inhibitors, I $\kappa$ B- $\alpha$  and  $\beta$ -catenin, for proteasomal degradation. FBX044 (F-box only protein 44), also known as FBG3, FBX30, FBX44, FBX6A or FBX06A, is a 255 amino acid protein that contains one F-box domain and one FBA domain and functions as a component of the SCF complex. Expressed abundantly in kidney and brain and at lower levels in liver, heart and spleen, FBX044 exists as multiple alternatively spliced isoforms and is thought to be involved in E3 ubiquitin ligase-related events throughout the cell.

## REFERENCES

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#### CHROMOSOMAL LOCATION

Genetic locus: FBX044 (human) mapping to 1p36.22; Fbxo44 (mouse) mapping to 4 E2.

## SOURCE

FBX044 (S-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FBX044 of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-323852 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

FBX044 (S-16) is recommended for detection of FBX044 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.

FBX044 (S-16) is also recommended for detection of FBX044 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for FBX044 siRNA (h): sc-78647, FBX044 siRNA (m): sc-145128, FBX044 shRNA Plasmid (h): sc-78647-SH, FBX044 shRNA Plasmid (m): sc-145128-SH, FBX044 shRNA (h) Lentiviral Particles: sc-78647-V and FBX044 shRNA (m) Lentiviral Particles: sc-145128-V.

Molecular Weight of FBX044: 30 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) Immunofluo-rescence: use donkey anti-goat IgG-FITC: sc-2783 (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.

#### **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.