

FBXO16 (T-13): sc-87122

BACKGROUND

Belonging to the F-box family of proteins, FBXO16 (F-box only protein 16), also known as FBX16, is a 292 amino acid protein that contains one C-terminal F-box domain. 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 mechanisms, including the cell cycle, the immune response, signaling cascades and developmental processes. They function by targeting proteins, such as cyclins, cyclin-dependent kinase inhibitors, I κ B- α and β -catenin, for degradation by the proteasome after ubiquitination. Via its F-box domain, FBXO16 can directly interact with Skp1 p19 and CUL-1. FBXO16 is expressed in heart, spleen and colon.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FBXO16 (human) mapping to 8p21.1; Fbxo16 (mouse) mapping to 14 D1.

RESEARCH USE

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

SOURCE

FBXO16 (T-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FBXO16 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-87122 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FBXO16 (T-13) is recommended for detection of FBXO16 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ 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.

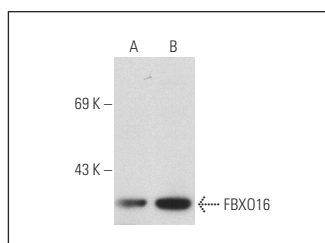
FBXO16 (T-13) is also recommended for detection of FBXO16 in additional species, including canine and porcine.

Suitable for use as control antibody for FBXO16 siRNA (h): sc-77769, FBXO16 siRNA (m): sc-145106, FBXO16 shRNA Plasmid (h): sc-77769-SH, FBXO16 shRNA Plasmid (m): sc-145106-SH, FBXO16 shRNA (h) Lentiviral Particles: sc-77769-V and FBXO16 shRNA (m) Lentiviral Particles: sc-145106-V.

Molecular Weight of FBXO16: 35 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210 or HeLa whole cell lysate: sc-2200.

DATA



FBXO16 (T-13): sc-87122. Western blot analysis of FBXO16 expression in HeLa (A) and NIH/3T3 (B) whole cell lysates.

STORAGE

Store at 4 $^{\circ}$ 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 or our catalog for detailed protocols and support products.