

Anti-F-box only protein 4 FBXO4 Antibody

Catalog Number: A08044

About FBXO4

Skp/Cullin/F-box (SCF) complexes are part of a large family of E3 ubiquitin ligases in which F-box proteins determine substrate specificity. Substrate selection by F-box proteins may also be aided by accessory cofactors. The F-box only protein 4, FBX4, interacts via its F-box with SKP1 and CUL1 to form SCFFBX4 ubiquitin ligase. The activity of the SCFFBX4 complex can be regulated by aB crystallin, a small heat shock protein which serves as a specificity cofactor for FBX4 dependent ubiquitination. FBX4 together with aB crystallin (SCFFBX4-aB crystallin) promotes the ubiquitination of cyclin D1 phosphorylated at Thr-286. In addition, the SCFFBX4-aB crystallin ubiquitin ligase has been implicated in the ubiquitination of unknown substrates in desmin-related myopathy. SCFFBX4, in the absence of aB crystallin, also ubiquitinates the telomeric protein PIN2/TRF1.

Overview

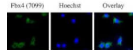
Product Name	Anti-F-box only protein 4 FBXO4 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-F-box only protein 4 FBXO4 Antibody (Catalog # A08044). Tested in IF, WB applications. This antibody reacts with Human, Mouse.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q8CHQ0

Technical Details

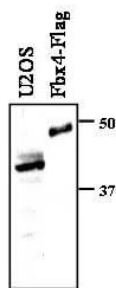
Immunogen	This whole rabbit serum was prepared by repeated immunizations with a synthetic peptide derived from sequences unique to the N-terminus of FBX4 and conserved between the human and murine proteins (see link below for the full-length sequence of the mouse gene product).
Predicted Reactive Species	Pig, Yeast
Isotype	Antiserum
Form	Liquid (sterile filtered)

Concentration	85 mg/mL by Refractometry
Purification	This antiserum is directed against human and mouse FBX4. Reactivity against homologues from other sources is not known.
Suggested Dilutions	ELISA: 1:5,000 - 1:25,000 WB: 1:500 - 1:3000 This antiserum has been tested for use in western blotting and immunocytochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 44 kDa in size by western blotting in the appropriate cell lysate or extract.

Anti-F-box only protein 4 FBXO4 Antibody (A08044) Images



Immunocytochemistry staining of NIH-3T3 cells with Boster's anti-FBX4. Cells were fixed in methanol/acetone followed by incubation with anti-FBX4 at a 1:300 dilution. Personal Communication. A, Diehl, Univ. of Pennsylvania, Philadelphia,



Whole cell extracts prepared from U2OS cells, or insect Sf9 cells expressing Flag-FBX4, were resolved by SDS-PAGE and transferred to nitrocellulose. FBX4 was detected using Boster's anti-FBX4 at a 1:500 dilution, in TBS buffer containing 0.1% Tween-20, followed by peroxidase conjugated anti-rabbit IgG. Personal Communication. A, Diehl, Univ. of Pennsylvania, Philadelphia, PA.

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