

Datasheet for 100-401-963**FBXO4 Antibody****Overview**

Description:	Anti-F-Box Only Protein 4 (FBX4) (RABBIT) Antibody - 100-401-963
Item No.:	100-401-963
Size:	100 µL
Applications:	IF, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	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.
Synonyms:	rabbit anti-Anti-F-box only protein 4 antibody, rabbit anti-Fbx4 antibody, rabbit anti-FBXO4 antibody, F box protein 4 antibody, F box protein Fbx4 antibody, FBX4 antibody, FBXO 4 antibody, FLJ10141 antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	FBXO4
Reactivity:	Human, Mouse

Immunogen Type:	Conjugated Peptide
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).
Purity/Specificity:	This antiserum is directed against human and mouse FBX4. Reactivity against homologues from other sources is not known.
Relevant Links:	<ul style="list-style-type: none">• UniProtKB - Q8CHQ0• NCBI - NP_036308.1• UniProtKB - Q9UKT5• GenelD - 26272

Application Details

Tested Applications:	IF, WB
Application Note:	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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:25,000
WB:	1:500 – 1:3000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	85 mg/mL by Refractometry
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

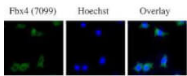
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: 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.

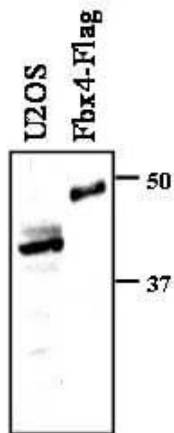
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunocytochemistry

Immunocytochemistry staining of NIH-3T3 cells with Rockland'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,



Western Blot

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 Rockland'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.

References

- Gong, Y et al. Pan-cancer genetic analysis identifies PARK2 as a master regulator of G1/S cyclins. *Nature Genetics* (2014)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.