

Product datasheet for **TA319513**

Fbxo4 Rabbit Polyclonal Antibody

Product data:

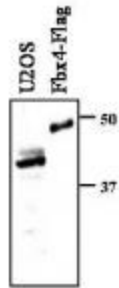
Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	ELISA: 1:5,000 - 1:25,000, WB: 1:500 – 1:3000
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	This whole rabbit serum was prepared by repeated immunizations with a synthetic peptide derived 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).
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	F-box protein 4
Database Link:	NP_598860 Entrez Gene 26272 Human Entrez Gene 106052 Mouse Q8CHQ0
Synonyms:	DKFZp547N213; FBX4; FLJ10141



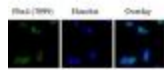
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Note: Skp/Cullin/F-box (SCF) complexes are part of a large family of E3 ubiquitin ligases in which F-box proteins determine substrate specificity. Substrate selection by F-box proteins may also be aided by accessory cofactors. The F-box only protein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

Product images:



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.



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,