

Rabbit FBXW5 Polyclonal Antibody | anti-FBXW5 antibody

FBXW5 Antibody

CATALOG # AAA328857	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

FBXW5; Polyclonal Antibody; FBXW5 Antibody; F box and WD 40 domain containing protein 5; F box and WD repeat domain containing 5; F box WD repeat containing protein 5; F box/WD repeat containing protein 5; F-box/WD repeat-containing protein 5; FBW5; WD repeat containing F box protein FBW5; anti-FBXW5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	FBXW5 Antibody detects endogenous levels of FBXW5.
Purity/Purification	Peptide affinity purification
Form/Format	Supplied in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	~1mg/ml (varies by lot)
Sequence Length	566
Applicable Applications for anti-FBXW5 antibody	WB (Western Blot)
Immunogen	A synthesized peptide derived from human FBXW5, corresponding to a region within the internal amino acids.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from HEK-293 cells, using FBXW5 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-FBXW5 antibody	Description: Substrate recognition component of both SCF (SKP1-CUL1-F-box protein) and DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complexes. Substrate recognition component of the SCF(FBXW5) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of SASS6 during S phase, leading to prevent centriole reduplication. The SCF(FBXW5) complex also mediates ubiquitination and degradation of actin-regulator EPS8 during G2 phase, leading to the transient degradation of EPS8 and subsequent cell shape changes required to allow mitotic progression. Substrate-specific adapter of the DCX(FBXW5) E3 ubiquitin-protein ligase complex which mediates the polyubiquitination and subsequent degradation of TSC2. May also act as a negative regulator of MAP3K7/TAK1 signaling in the interleukin-1B (IL1B) signaling pathway. Post Translational Modifications: Phosphorylated at Ser-151 by PLK4 during the G1/S transition, leading to inhibit its ability to ubiquitinate SASS6. Ubiquitinated and degraded by the APC/C complex during mitosis and G1 phase. Subunit Structure: Part of the SCF (SKP1-CUL1-F-box) E3 ubiquitin-protein ligase complex SCF(FBXW5) composed of CUL1, SKP1, RBX1 and FBXW5. Component of the DCX(FBXW5) E3 ubiquitin ligase complex, at least composed of (CUL4A or CUL4B), DDB1, FBXW5 and RBX1. Interacts with CDC20, EPS8, TSC1, TSC2 and SASS6. Interacts with TNFAIP8L1; TNFAIP8L1 competes with TSC2 to bind FBXW5 increasing TSC2 stability by preventing its ubiquitination. Similarity: The F-box domain mediates interaction with components of SCF (SKP1-CUL1-F-box protein) complexes, while WD repeats mediate interaction with components of DCX (DDB1-CUL4-X-box) complexes. The D-box (destruction box) mediate the interaction with APC proteins, and acts as a recognition signal for degradation via the ubiquitin-proteasome pathway. Belongs to the FBXW5 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	24308129
NCBI GeneID	54461
NCBI Accession #	NP_061871
NCBI GenBank Nucleotide #	NP_061871.1
UniProt Accession #	Q969U6
Molecular Weight	Observed: 65 kDa Predicted: 64 kDa
NCBI Official Full Name	F-box/WD repeat-containing protein 5
NCBI Official Synonym Full Names	F-box and WD repeat domain containing 5
NCBI Official Symbol	FBXW5
NCBI Official Synonym Symbols	Fbw5
NCBI Protein Information	F-box/WD repeat-containing protein 5
UniProt Protein Name	F-box/WD repeat-containing protein 5
UniProt Gene Name	FBXW5
UniProt Synonym Gene Names	FBW5
UniProt Entry Name	FBXW5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.