

# BTRC2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP58987

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-F, IF, E
<b>Primary Accession</b>	<a href="#">Q9UKB1</a>
<b>Reactivity</b>	Rat, Pig, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	62091
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human BTRC2/beta TRCP2
<b>Epitope Specificity</b>	1-100/542
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Cytoplasm. Nucleus.
<b>SIMILARITY</b>	Contains 1 F-box domain. Contains 7 WD repeats.
<b>SUBUNIT</b>	Self-associates. Component of the SCF(FBXW11) complex formed of CUL1, SKP1, RBX1 and a FBXW11 dimer. Interacts with BTRC, BST2, PER1, RCAN1 and USP47. Interacts with phosphorylated ubiquitination substrate PER2 (By similarity). Interacts with phosphorylated ubiquitination substrates CTNNB1, NFKBIA, IFNAR1; the interaction requires the phosphorylation of the two serine residues in the substrates' destruction motif D-S-G-X(2,3,4)-S. Interacts with TRIM21.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	Beta TRCP2 is a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the Fbws class and, in addition to an F-box, contains multiple WD40 repeats. This gene contains at least 14 exons, and its alternative splicing generates 3 transcript variants diverging at the presence/absence of two alternate exons.

## Additional Information

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<b>Gene ID</b>	23291
<b>Other Names</b>	F-box/WD repeat-containing protein 11, F-box and WD repeats protein beta-TrCP2, F-box/WD repeat-containing protein 1B, Homologous to Slimb

protein, HOS, FBXW11, BTRCP2, FBW1B, FBXW1B, KIAA0696

<b>Dilution</b>	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:50-200,ELISA=1:5000-10000
<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

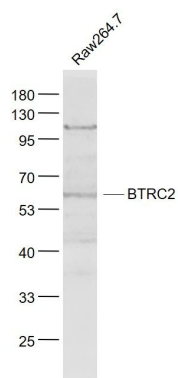
## Protein Information

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<b>Name</b>	FBXW11 {ECO:0000303 PubMed:26837067, ECO:0000312 HGNC:HGNC:13607}
<b>Function</b>	<p>Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:<a href="#">10437795</a>, PubMed:<a href="#">10648623</a>, PubMed:<a href="#">11158290</a>, PubMed:<a href="#">19966869</a>, PubMed:<a href="#">20347421</a>, PubMed:<a href="#">22017875</a>, PubMed:<a href="#">22017876</a>, PubMed:<a href="#">36608670</a>). Probably recognizes and binds to phosphorylated target proteins: the interaction with substrates requires the phosphorylation of the two serine residues in the substrates' destruction motif D-S-G-X(2,3,4)-S (PubMed:<a href="#">10437795</a>, PubMed:<a href="#">10648623</a>, PubMed:<a href="#">19966869</a>, PubMed:<a href="#">20347421</a>, PubMed:<a href="#">22017875</a>, PubMed:<a href="#">22017876</a>, PubMed:<a href="#">36608670</a>). SCF(FBXW11) mediates the ubiquitination of phosphorylated CTNNB1 and participates in Wnt signaling regulation (PubMed:<a href="#">10321728</a>). SCF(FBXW11) plays a key role in NF-kappa-B activation by mediating ubiquitination of phosphorylated NFKBIA, leading to its degradation by the proteasome, thereby allowing the associated NF-kappa-B complex to translocate into the nucleus and to activate transcription (PubMed:<a href="#">10321728</a>, PubMed:<a href="#">10437795</a>, PubMed:<a href="#">10644755</a>, PubMed:<a href="#">20347421</a>). The SCF(FBXW11) complex also regulates NF-kappa-B by mediating ubiquitination of phosphorylated NFKB1: specifically ubiquitinates the p105 form of NFKB1, leading to its degradation (PubMed:<a href="#">11158290</a>). SCF(FBXW11) mediates the ubiquitination of IFNAR1 (PubMed:<a href="#">14532120</a>, PubMed:<a href="#">15337770</a>). SCF(FBXW11) mediates the ubiquitination of CEP68; this is required for centriole separation during mitosis (PubMed:<a href="#">25503564</a>). Involved in the oxidative stress-induced a ubiquitin-mediated decrease in RCAN1 (PubMed:<a href="#">18575781</a>). Mediates the degradation of CDC25A induced by ionizing radiation in cells progressing through S phase and thus may function in the intra-S-phase checkpoint (PubMed:<a href="#">14603323</a>). Has an essential role in the control of the clock-dependent transcription via degradation of phosphorylated PER1 and phosphorylated PER2 (PubMed:<a href="#">15917222</a>). SCF(FBXW11) mediates the ubiquitination of CYTH1, and probably CYTH2 (PubMed:<a href="#">29420262</a>). SCF(FBXW11) acts as a regulator of mTORC1 signaling pathway by catalyzing ubiquitination and subsequent proteasomal degradation of phosphorylated DEPTOR, TFE3 and MITF (PubMed:<a href="#">22017875</a>, PubMed:<a href="#">22017876</a>, PubMed:<a href="#">36608670</a>).</p>
<b>Cellular Location</b>	Cytoplasm {ECO:0000250 UniProtKB:Q5SRY7}. Nucleus {ECO:0000250 UniProtKB:Q5SRY7}

## Images

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**Sample:**

Raw264.7(Mouse) Cell Lysate at 30 ug

Primary: Anti- BTRC2 (AP58987) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at  
1/20000 dilution

Predicted band size: 62 kD

Observed band size: 62 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.