

BTRC Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20478a

Specification

BTRC Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O9Y297
Other Accession	Q3ULA2
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	127-156

BTRC Antibody (N-term) - Additional Information

Gene ID 8945

Other Names

F-box/WD repeat-containing protein 1A, E3RSIkappaB, Epididymis tissue protein Li 2a, F-box and WD repeats protein beta-TrCP, plkappaBalph-E3 receptor subunit, BTRC, BTRCP, FBW1A, FBXW1A

Target/Specificity

This BTRC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 127-156 amino acids from the N-terminal region of human BTRC.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

BTRC Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

BTRC Antibody (N-term) - Protein Information

Name BTRC

Synonyms BTRCP, FBW1A, FBXW1A

Function 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:[10066435](#), PubMed:[10497169](#), PubMed:[10644755](#), PubMed:[10835356](#), PubMed:[11158290](#), PubMed:[11238952](#), PubMed:[11359933](#), PubMed:[11994270](#), PubMed:[12791267](#), PubMed:[12902344](#), PubMed:[14603323](#), PubMed:[14681206](#), PubMed:[14988407](#), PubMed:[15448698](#), PubMed:[15917222](#), PubMed:[16371461](#), PubMed:[22017875](#), PubMed:[22017876](#), PubMed:[22017877](#), PubMed:[22087322](#), PubMed:[25503564](#), PubMed:[25704143](#), PubMed:[36608670](#), PubMed:[9859996](#), PubMed:[9990852](#)). Recognizes and binds to phosphorylated target proteins (PubMed:[10066435](#), PubMed:[10497169](#), PubMed:[10644755](#), PubMed:[10835356](#), PubMed:[11158290](#), PubMed:[11238952](#), PubMed:[11359933](#), PubMed:[11994270](#), PubMed:[12791267](#), PubMed:[12902344](#), PubMed:[14603323](#), PubMed:[14681206](#), PubMed:[14988407](#), PubMed:[15448698](#), PubMed:[15917222](#), PubMed:[16371461](#), PubMed:[22017875](#), PubMed:[22017876](#), PubMed:[22017877](#), PubMed:[22087322](#), PubMed:[25503564](#), PubMed:[25704143](#), PubMed:[36608670](#), PubMed:[9859996](#), PubMed:[9990852](#)). SCF(BTRC) mediates the ubiquitination of CTNNB1 and participates in Wnt signaling (PubMed:[12077367](#), PubMed:[12820959](#)). SCF(BTRC) mediates the ubiquitination of phosphorylated NFKB1, ATF4, CDC25A, DLG1, FBXO5, PER1, SMAD3, SMAD4, SNAI1 and probably NFKB2 (PubMed:[10835356](#), PubMed:[11238952](#), PubMed:[14603323](#), PubMed:[14681206](#)). SCF(BTRC) mediates the ubiquitination of NFKBIA, NFKBIB and NFKBIE; the degradation frees the associated NFKB1 to translocate into the nucleus and to activate transcription (PubMed:[10066435](#), PubMed:[10497169](#), PubMed:[10644755](#), PubMed:[9859996](#)). Ubiquitination of NFKBIA occurs at 'Lys-21' and 'Lys-22' (PubMed:[10066435](#)). 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:[10835356](#), PubMed:[11158290](#), PubMed:[14673179](#)). SCF(BTRC) mediates the ubiquitination of CEP68; this is required for centriole separation during mitosis (PubMed:[25503564](#), PubMed:[25704143](#)). SCF(BTRC) mediates the ubiquitination and subsequent degradation of nuclear NFE2L1 (By similarity). Has an essential role in the control of the clock-dependent transcription via degradation of phosphorylated PER1 and PER2 (PubMed:[15917222](#)). May be involved in ubiquitination and subsequent proteasomal degradation through a DBB1-CUL4 E3 ubiquitin-protein ligase. Required for activation of NFKB-mediated transcription by IL1B, MAP3K14, MAP3K1, IKBKB and TNF. Required for proteolytic processing of GLI3 (PubMed:[16371461](#)). Mediates ubiquitination of REST, thereby leading to its proteasomal degradation (PubMed:[18354482](#), PubMed:[21258371](#)). SCF(BTRC) mediates the ubiquitination and subsequent proteasomal degradation of KLF4; thereby negatively regulating cell pluripotency maintenance and embryogenesis (By similarity). SCF(BTRC) acts as a regulator of mTORC1 signaling pathway by catalyzing ubiquitination and subsequent proteasomal degradation of phosphorylated DEPTOR, TFE3 and MITF (PubMed:[22017875](#), PubMed:[22017876](#), PubMed:[22017877](#), PubMed:[33110214](#), PubMed:[36608670](#)).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q3ULA2}. Nucleus {ECO:0000250|UniProtKB:Q3ULA2}

Tissue Location

Expressed in epididymis (at protein level).

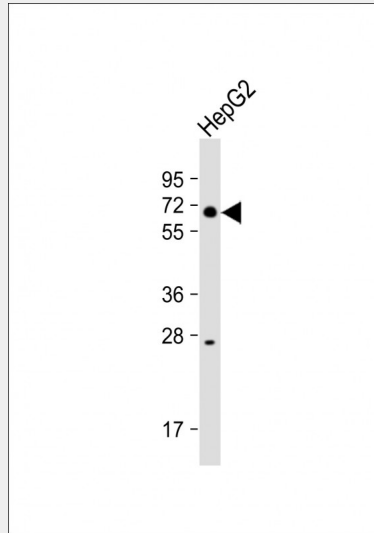
BTRC Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BTRC Antibody (N-term) - Images



Anti-BTRC Antibody (N-term) at 1:1000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 69 kDa Blocking/Dilution buffer: 5% NFDN/TBST.

BTRC Antibody (N-term) - Background

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BTRC Antibody (N-term) - References

- Busino L., et al. Nature 426:87-91(2003).
Wan M., et al. J. Biol. Chem. 279:14484-14487(2004).
Zhou B.P., et al. Nat. Cell Biol. 6:931-940(2004).
Yaron A., et al. Nature 396:590-594(1998).
Margottin F., et al. Mol. Cell 1:565-574(1998).