

Btrc antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI11982**Specification****Btrc antibody - C-terminal region - Product Information**

Application	WB
Primary Accession	Q3ULA2
Other Accession	NM_001037758 , NP_001032847
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Dog
Predicted Host	Rat, Rabbit, Pig, Chicken, Horse, Bovine
Clonality	Rabbit
Calculated MW	Polyclonal 69kDa KDa

Btrc antibody - C-terminal region - Additional Information**Gene ID** 12234

Alias Symbol	Beta-Trcp1, FWD1, Fbw1a, KIAA4123, Slimb, b-TrCP, beta-TrCP, mKIAA4123, HOS
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Other Names

F-box/WD repeat-containing protein 1A, plkappaB-E3 receptor subunit, Btrc
{ECO:0000312|MGI:MGI:1338871}

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-Btrc antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

Btrc antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Btrc antibody - C-terminal region - Protein Information

Name Btrc {ECO:0000312|MGI:MGI:1338871}

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:10097128, PubMed:16371461, PubMed:18782782, PubMed:9859996)

target="_blank">9859996, PubMed:9990853, PubMed:21911472, PubMed:29593216). Recognizes and binds to phosphorylated target proteins (PubMed:10097128, PubMed:16371461, PubMed:18782782, PubMed:9859996, PubMed:9990853, PubMed:21911472). SCF(BTRC) mediates the ubiquitination of phosphorylated NFKB, ATF4, CDC25A, DLG1, FBXO5, PER1, SMAD3, SMAD4, SNAI1 and probably NFKB2. SCF(BTRC) mediates the ubiquitination of CTNNB1 and participates in Wnt signaling (By similarity). 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:9859996, PubMed:10097128). Ubiquitination of NFKBIA occurs at 'Lys-21' and 'Lys-22' (PubMed:9859996, PubMed:10097128). 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 (By similarity). SCF(BTRC) mediates the ubiquitination of CEP68; this is required for centriole separation during mitosis (By similarity). SCF(BTRC) mediates the ubiquitination and subsequent degradation of nuclear NFE2L1 (PubMed:21911472). Has an essential role in the control of the clock-dependent transcription via degradation of phosphorylated PER1 and PER2 (PubMed:18782782). May be involved in ubiquitination and subsequent proteasomal degradation through a DBB1- CUL4 E3 ubiquitin-protein ligase (By similarity). Required for activation of NFKB-mediated transcription by IL1B, MAP3K14, MAP3K1, IKKB and TNF (By similarity). Required for proteolytic processing of GLI3 (PubMed:16371461). Mediates ubiquitination of REST, thereby leading to its proteasomal degradation (By similarity). SCF(BTRC) mediates the ubiquitination and subsequent proteasomal degradation of KLF4; thereby negatively regulating cell pluripotency maintenance and embryogenesis (PubMed:29593216). SCF(BTRC) acts as a regulator of mTORC1 signaling pathway by catalyzing ubiquitination and subsequent proteasomal degradation of phosphorylated DEPTOR, TFE3 and MITF (By similarity).

Cellular Location

Cytoplasm. Nucleus

Tissue Location

Expressed in heart, brain, liver, skeletal muscle and, most strongly, in testis.

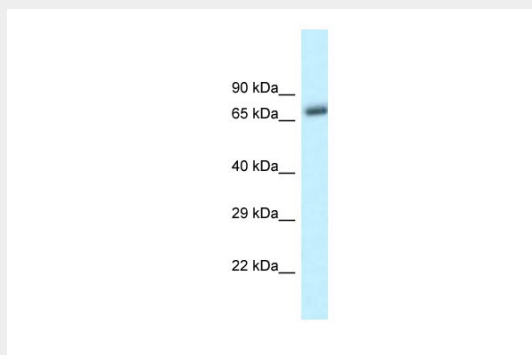
Btrc antibody - C-terminal region - Protocols

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 - C-terminal region - Images



WB Suggested Anti-Btrc Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Pancreas