

## Product datasheet for **CF502464**

### Beta TRCP (BTRC) Mouse Monoclonal Antibody [Clone ID: OTI3D5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3D5
Applications:	IF, WB
Recommended Dilution:	WB 1:500, IF 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human fragment corresponding to amino acids 52-354 of human BTRC (NP_378663) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	68.7 kDa
Gene Name:	beta-transducin repeat containing E3 ubiquitin protein ligase
Database Link:	<a href="#">NP_378663</a> <a href="#">Entrez Gene 12234 Mouse</a> <a href="#">Entrez Gene 361765 Rat</a> <a href="#">Entrez Gene 8945 Human</a> <a href="#">Q9Y297</a>



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**Background:**

This gene encodes 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; in addition to an F-box, this protein contains multiple WD-40 repeats. This protein is homologous to *Xenopus* bTrCP1, yeast Met30, *Neurospora* Scon2 and *Drosophila* Slimb proteins. It interacts with HIV-1 Vpu and connects CD4 to the proteolytic machinery. It also associates specifically with phosphorylated I $\kappa$ B $\alpha$  and beta-catenin destruction motifs, probably functioning in multiple transcriptional programs by activating the NF- $\kappa$ B pathway and inhibiting the beta-catenin pathway. [provided by RefSeq]

**Synonyms:**

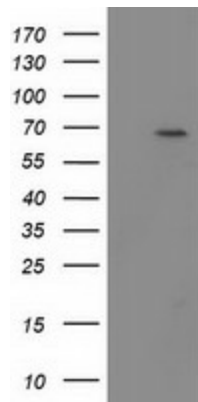
BETA-TRCP; betaTrCP; bTrCP; bTrCP1; FBW1A; FBXW1; FBXW1A; FWD1

**Protein Families:**

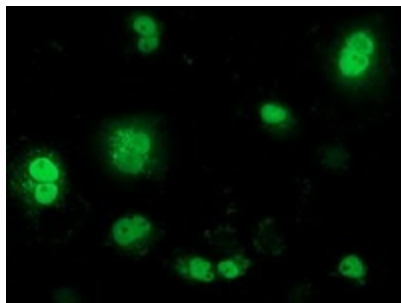
Druggable Genome

**Protein Pathways:**

Hedgehog signaling pathway, Oocyte meiosis, Ubiquitin mediated proteolysis, Wnt signaling pathway

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY BTRC ([RC207025], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5  $\mu$ g per lane) were separated by SDS-PAGE and immunoblotted with anti-BTRC.



Anti-BTRC mouse monoclonal antibody ([TA502464]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY BTRC ([RC207025]).