

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human BetaTrCP1 isoform 2 in direct ELISAs and Western blots. Detects mouse BetaTrCP1 in Western Blots. Detection of mouse BetaTrCP1 in Immunocytochemistry has not been tested.
Source	Monoclonal Mouse IgG ₁ Clone # 763524
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human β -TrCP1 isoform 2 Met1-Leu120 Accession # Q9Y297-2
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

β -TrCP1, also called BTRC (β -transducin repeat containing E3 ubiquitin ligase), FBW1A (F-box/WD repeat containing 1A) and FBXW1A, is an approximately 63-70 kDa protein that associates with Skp1, Cullin, and RBX1 to form an SCF ubiquitin ligase complex. These complexes regulate the degradation of a wide variety of proteins including transcription factors, signal transduction molecules, and cytokine receptors. They play important roles in regulation of the inflammatory response, cell cycle, apoptosis, tumorigenesis, and the response to DNA damage. β -TrCP1 can form homodimers and heterodimers with β -TrCP2, which associate into SCF complexes with distinct substrate preferences. Human β -TrCP1 contains a dimerization domain (aa 128-177), an F-box domain (aa 181-228), and seven tandem WD repeats (aa 301-590). The WD repeats assemble into a beta propeller structure that binds to phosphorylated destruction motifs in the substrate. Alternate splicing generates a short isoform with a 36 aa deletion near the N-terminus. Within aa 1-120 of the 63 kDa short isoform, human β -TrCP1 shares 98% and 91% aa sequence identity with mouse and rat β -TrCP1, respectively.

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