

#11984 Store at -20°C

β-TrCP (D12C8) Rabbit mAb

**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	62	Rabbit IgG	#Q9Y297	8945

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	β-TrCP (D12C8) Rabbit mAb recognizes endogenous levels of total β-TrCP1 protein. It does not detect β-TrCP2 (FBW1B).	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to human β-TrCP protein.	
Background	β-transducin repeat-containing protein (β-TrCP or FBW1A) is an F-box family protein characterized by the presence of the protein-protein mediating F-box domain first described in cyclin F. F-box proteins act as substrate adaptors that target proteins containing a specific phosphorylated sequence element, referred to as a phosphodegron, to the SCF E3 ubiquitin ligase complex for ubiquitination (1,2). β-TrCP targets many important proteins with diverse functions, such as p53, H-Ras, Smad4, IκBα, β-catenin, and the cell cycle checkpoint protein claspain, for ubiquitin-mediated degradation (3-5). Research studies have shown that inhibition of β-TrCP expression has a demonstrated benefit in the treatment of prostate cancer (6).	
Background References	<ol style="list-style-type: none"> 1. Bour, S. et al. (2001) <i>J Biol Chem</i> 276, 15920-8. 2. Kusmierczyk, A.R. and Hochstrasser, M. (2008) <i>Biol Chem</i> 389, 1143-51. 3. Wan, M. et al. (2004) <i>J Biol Chem</i> 279, 14484-7. 4. Mailand, N. et al. (2006) <i>Mol Cell</i> 23, 307-18. 5. Frescas, D. and Pagano, M. (2008) <i>Nat Rev Cancer</i> 8, 438-49. 6. Gluschnaider, U. et al. (2010) <i>PLoS One</i> 5, e9060. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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