

β-TrCP (D12C8) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	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 claspin, 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

1. Bour, S. et al. (2001) *J Biol Chem* 276, 15920-8.
2. Kusmierczyk, A.R. and Hochstrasser, M. (2008) *Biol Chem* 389, 1143-51.
3. Wan, M. et al. (2004) *J Biol Chem* 279, 14484-7.
4. Mailand, N. et al. (2006) *Mol Cell* 23, 307-18.
5. Frescas, D. and Pagano, M. (2008) *Nat Rev Cancer* 8, 438-49.
6. Gluschnaider, U. et al. (2010) *PLoS One* 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

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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