

Store at
-20°C
#11984

β -TrCP (D12C8) Rabbit mAb

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Entrez-Gene ID #8945
UniProt ID #Q9Y297

rev. 05/11/16

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications
W
Endogenous

Species Cross-Reactivity*
H, M, R, Mk

Molecular Wt.
62 kDa

Isotype
Rabbit IgG**

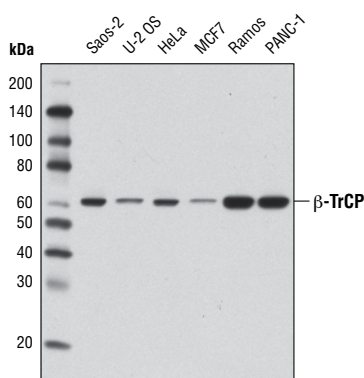
Background: β -transducin repeat-containing protein (β -TrCP or FBW1A) is an F-box family protein characterized by the presence of the protein-protein mediating F-box domain first described in cyclin F. F-box proteins act as substrate adaptors that target proteins containing a specific phosphorylated 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, I κ B α , 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).

Specificity/Sensitivity: β -TrCP (D12C8) Rabbit mAb recognizes endogenous levels of total β -TrCP protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to human β -TrCP protein.

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.



Western blot analysis of extracts from various cell lines using β -TrCP (D12C8) Rabbit mAb.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C . Do not aliquot the antibody.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting 1:1000

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween[®]20 at 4°C with gentle shaking, overnight.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide **Species Cross-Reactivity:** H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected **Species** enclosed in parentheses are predicted to react based on 100% homology.