#12248 Store at -20°C

Skp1 (D3J4N) Rabbit mAb

☑ 100 µl
(10 western blots)

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Entrez-Gene ID #6500
Swiss-Prot Acc. #P63208

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IP Endogenous	H, M, R, Mk, (Z)	19 kDa	Rabbit IgG**

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.*

***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
Immunoprecipitation	1:100

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

Background: Ubiquitin can be covalently linked to many cellular proteins by the ubiquitination process, which targets proteins for degradation by the 26S proteasome. Three components are involved in the target protein-ubiquitin conjugation process. Ubiquitin is first activated by forming a thiolester complex with the activation component E1; the activated ubiquitin is subsequently transferred to the ubiquitin-carrier protein E2 and then from E2 to ubiquitin ligase E3 for final delivery to the epsilon-NH_2 of the target protein lysine residue (1-3). Combinatorial interactions of different E2 and E3 proteins result in substrate specificity (4). Recent data suggest that activated E2 associates transiently with E3, and the dissociation is a critical step for ubiquitination (5). S phase kinase-associated protein 1 (Skp1) is a critical scaffold protein of the Skp1/CUL1/F-box (SCF) E3 ubiquitin ligase protein complex. Various F-box proteins (e.g., β-TrCP, Skp2) mediate an interaction with Skp1, via their defining and conserved domain of 40 amino acids, and with substrates to be ubiquitinated (e.g., β-catenin, p27) (4).

Specificity/Sensitivity: Skp1 (D3J4N) Rabbit mAb recognizes endogenous levels of total Skp1 protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Skp1 protein.

Background References:

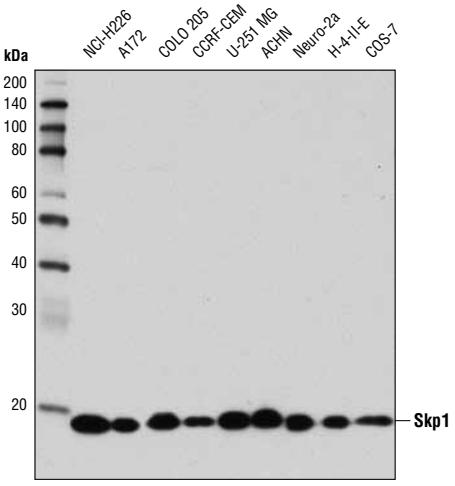
(1) Ciechanover, A. (1998) *EMBO J.* 17, 7151-60.

(2) Hochstrasser, M. (2000) *Nat. Cell Biol.* 2, E153-7.

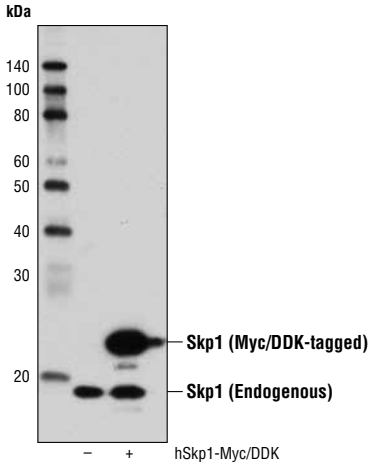
(3) Hochstrasser, M. (2000) *Science* 289, 563-4.

(4) DeSalle, L.M. and Pagano, M. (2001) *FEBS Lett.* 490, 179-89.

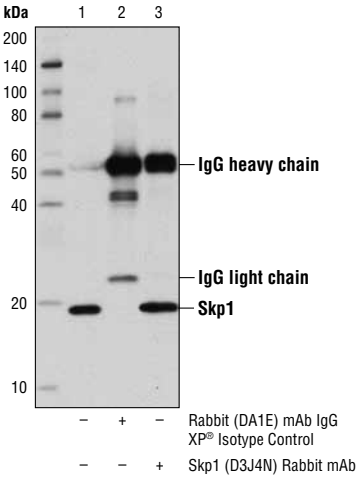
(5) Deffenbaugh, A.E. et al. (2003) *Cell* 114, 611-22.



Western blot analysis of extracts from various cell lines using Skp1 (D3J4N) Rabbit mAb.



Western blot analysis of extracts from 293T cells, mock transfected (-) or transfected with a construct expressing Myc/DDK-tagged full-length human Skp1 isoform b (hSkp1-Myc/DDK; +), using Skp1 (D3J4N) Rabbit mAb.



Immunoprecipitation of Skp1 from 293T cell extracts using Rabbit (DA1E) mAb IgG XP® Isotype Control #3900 (lane 2) or Skp1 (D3J4N) Rabbit mAb (lane 3). Lane 1 is 10% input. Western blot analysis was performed using Skp1 (D3J4N) Rabbit mAb.

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.

Applications Key: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide
Species Cross-Reactivity Key: **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.