## S5a/PSMD4 (D20B2) Rabbit mAb

**✓** 100 µl (10 western blots)



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New 11/12

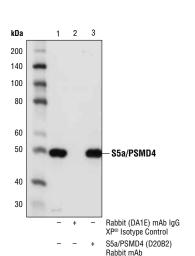
## For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Species Cross-Reactivity*
W, IP	H, M, R, Mk,
Endogenous	(Hm. X. 7. B. Da. Pa. Hr)

Background: S5a (PSMD4) is a subunit of the 19S regulatory proteasome complex functioning in ubiquitinatedprotein targeting and degradation (1). S5a contains two polyubiquitin binding motifs (UIM) that bind multiubiquitin chains by hydrophobic interaction (2,3). In addition to ubiquitin, the UIM of S5a shows high affinity to a ubiquitinlike domain present in many proteins. S5a binds to these types of proteins directly and mediates their targeting to the proteasome for degradation (4,5).

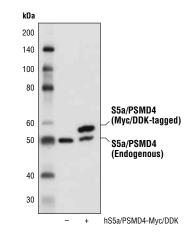
Specificity/Sensitivity: S5a/PSMD4 (D20B2) Rabbit mAb recognizes endogenous levels of total S5a/PSMD4 protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human S5a/ PSMD4 protein.

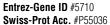


Immunoprecipitation of S5a/PSMD4 from 293T cell extracts, using Rabbit (DA1E) mAb IgG XP® Isotype Control #3900 (lane 2) or S5a/PSMD4 (D20B2) Rabbit mAb (lane 3). Lane 1 is 10% input. Western blot analysis was performed using S5a/PSMD4 (D20B2) Rabbit mAb.





Western blot analysis of extracts from 293T cells, mock transfected (-) or transfected with a construct expressing Mvc/ DDK-tagged full-length human S5a/PSMD4 (hS5a/PSMD4-Myc/DDK; +), using S5a/PSMD4 (D20B2) Rabbit mAb.



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:**

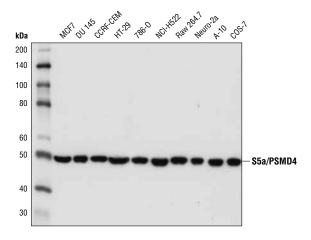
1:1000 Western blotting Immunoprecipitation 1:50

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 References:**

- (1) Deveraux, Q. et al. (1995) J. Biol. Chem. 270, 23726-23729.
- (2) Young, P. et al. (1998) J. Biol. Chem. 273, 5461-5467.
- (3) Beal, R. et al. (1996) Proc. Natl. Acad. Sci. USA 93, 861-
- (4) Fujiwara, K. et al. (2004) J. Biol. Chem. 279, 4760-4767.
- (5) Sakata, E. et al. (2003) EMBO Rep. 4, 301-306.



Western blot analysis of extracts from various cell lines using S5a/PSMD4 (D20B2) Rabbit mAb.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.