

S5a/PSMD4 (D17E4) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R Mk	Endogenous	50	Rabbit IgG	#P55036	5710

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

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

S5a/PSMD4 (D17E4) Rabbit mAb recognizes endogenous levels of total S5a/PSMD4 protein.

Species predicted to react based on 100% sequence homology

Hamster, Xenopus, Zebrafish, Bovine, Dog, Pig, Horse

Source / Purification

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

Background

S5a (PSMD4) is a subunit of the 19S regulatory proteasome complex functioning in ubiquitinated-protein 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 ubiquitin-like domain present in many proteins. S5a binds to these types of proteins directly and mediates their targeting to the proteasome for degradation (4,5).

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, 861-866.
4. Fujiwara, K. et al. (2004) *J. Biol. Chem.* 279, 4760-4767.
5. Sakata, E. et al. (2003) *EMBO Rep.* 4, 301-306.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

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

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